Frameworks #WWDC14

A Look Inside Presentation Controllers

With a case study on alerts and search

Session 228
Peter Hajas
UlKit Engineer

Jim Turner UlKit Engineer

Animator objects

Animator objects

Custom presentation difficult

Animator objects

Custom presentation difficult

UIPresentationController

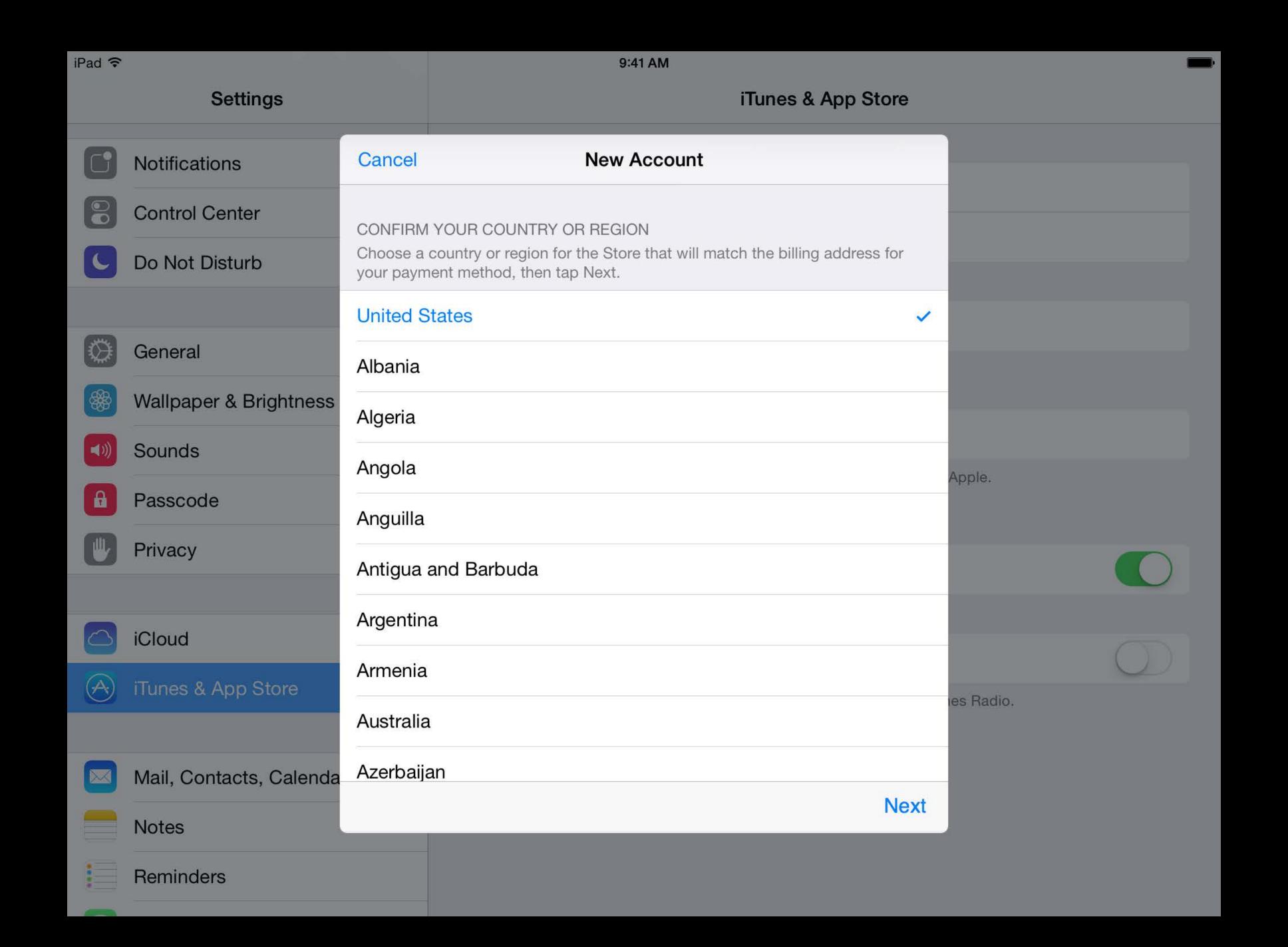
Presentation basics

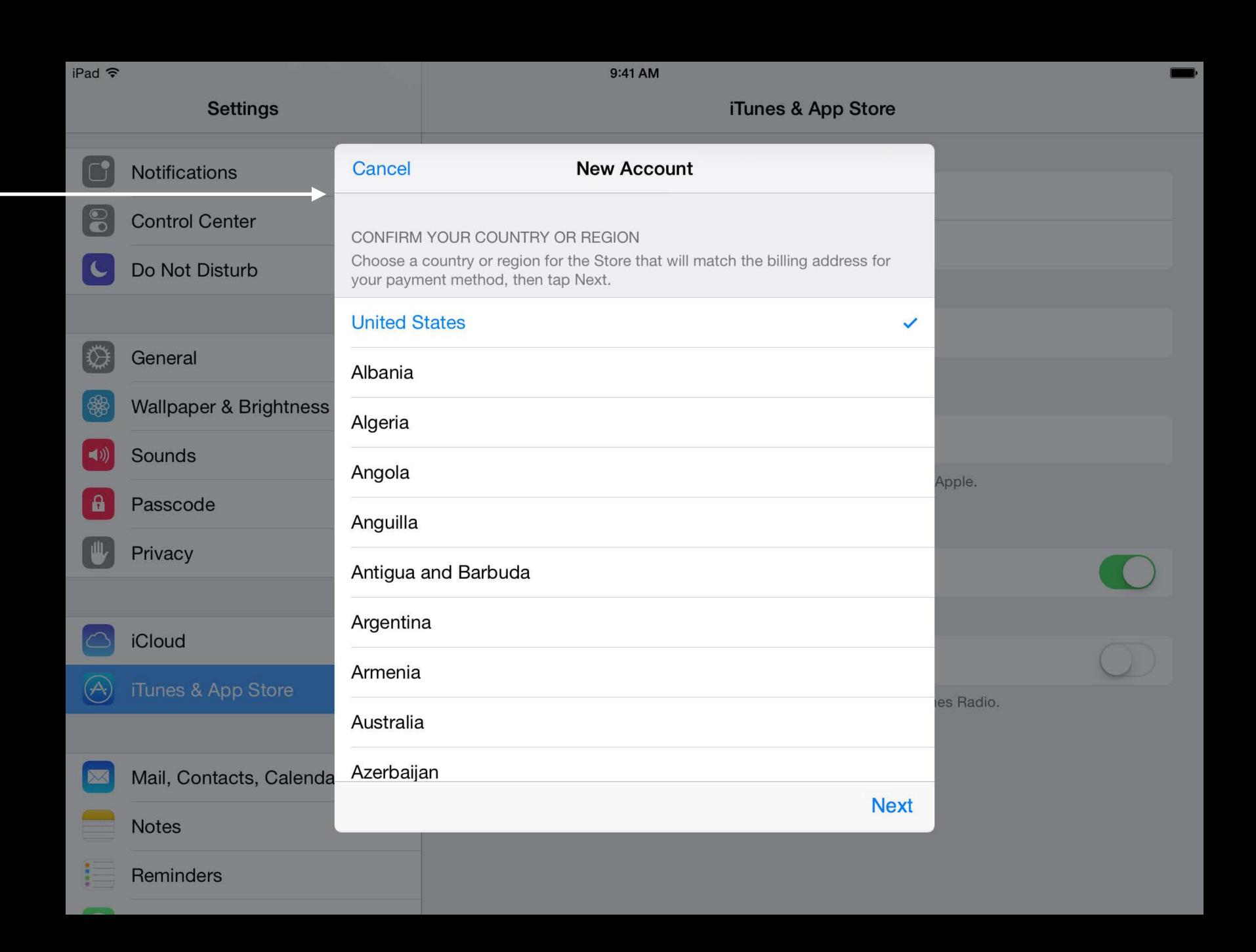
Presentation basics
UlKit presentations

Presentation basics
UlKit presentations
Demo

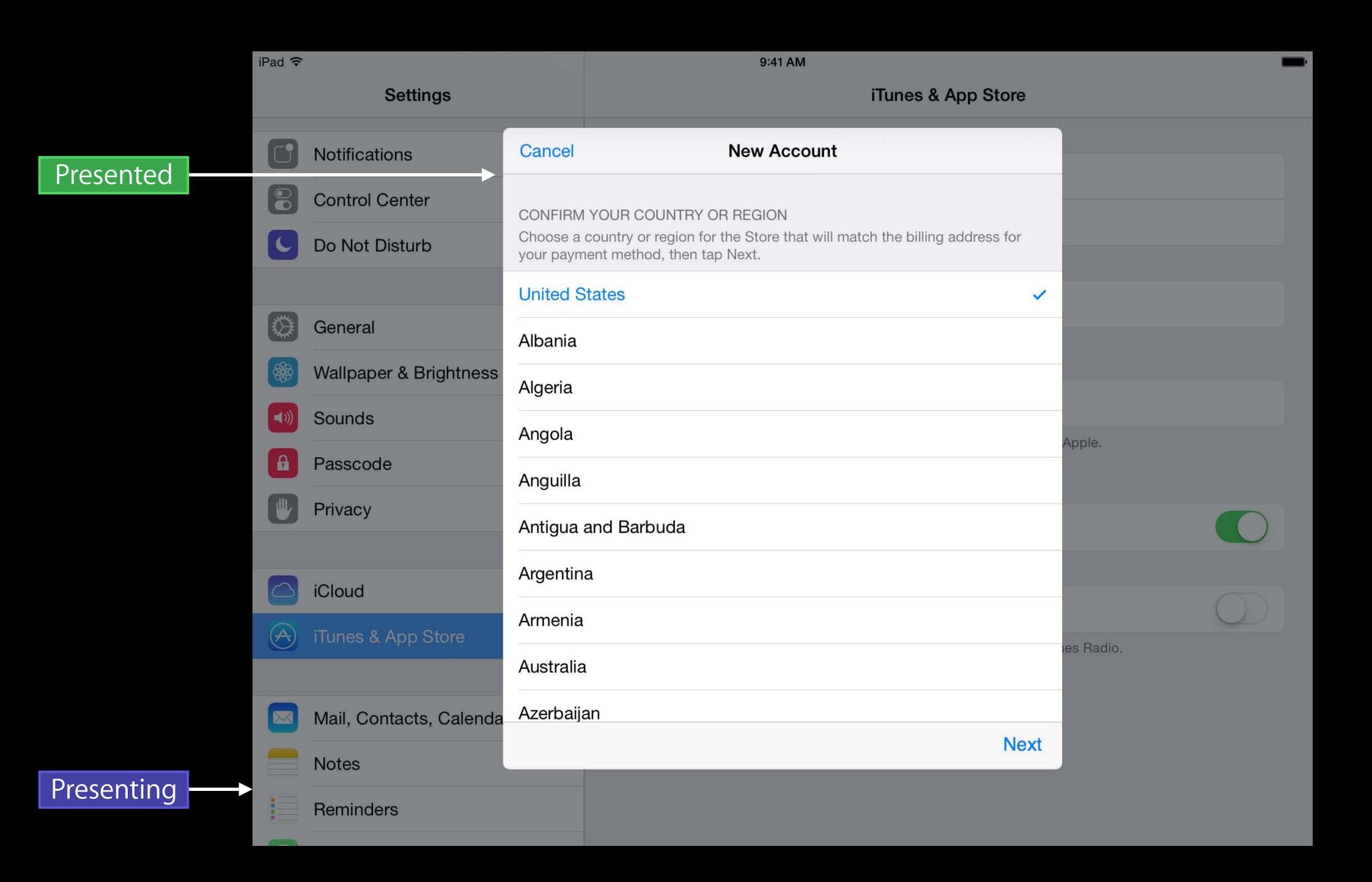
iPad ❖		9:41 AM	
	Settings	iTunes & App Store	
	Notifications		
8	Control Center	Apple ID example@icloud.com	
	Do Not Disturb	Password required	
		Sign In	
0	General	Forgot Apple ID or Password?	
₩	Wallpaper & Brightness	Constant New Apple ID	
■ (0)	Sounds	Create New Apple ID	
a	Passcode	An Apple ID is the login you use for just about everything you do with Apple.	
	Privacy	AUTOMATIC DOWNLOADS	
1002-100		Updates	
	iCloud	Use Cellular Data	
A	iTunes & App Store	Use cellular network for automatic downloads, iTunes Match, and iTunes Radio.	
	Mail, Contacts, Calendars		
	Notes		
	Reminders		
1			

iPad ❖		9:41 AM	
	Settings	iTunes & App Store	
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8	Control Center	Apple ID example@icloud.com	
	Do Not Disturb	Password required	
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a	Passcode	An Apple ID is the login you use for just about everything you do with Apple.	
	Privacy	AUTOMATIC DOWNLOADS	
1002-100		Updates	
	iCloud	Use Cellular Data	
A	iTunes & App Store	Use cellular network for automatic downloads, iTunes Match, and iTunes Radio.	
	Mail, Contacts, Calendars		
	Notes		
	Reminders		
1			





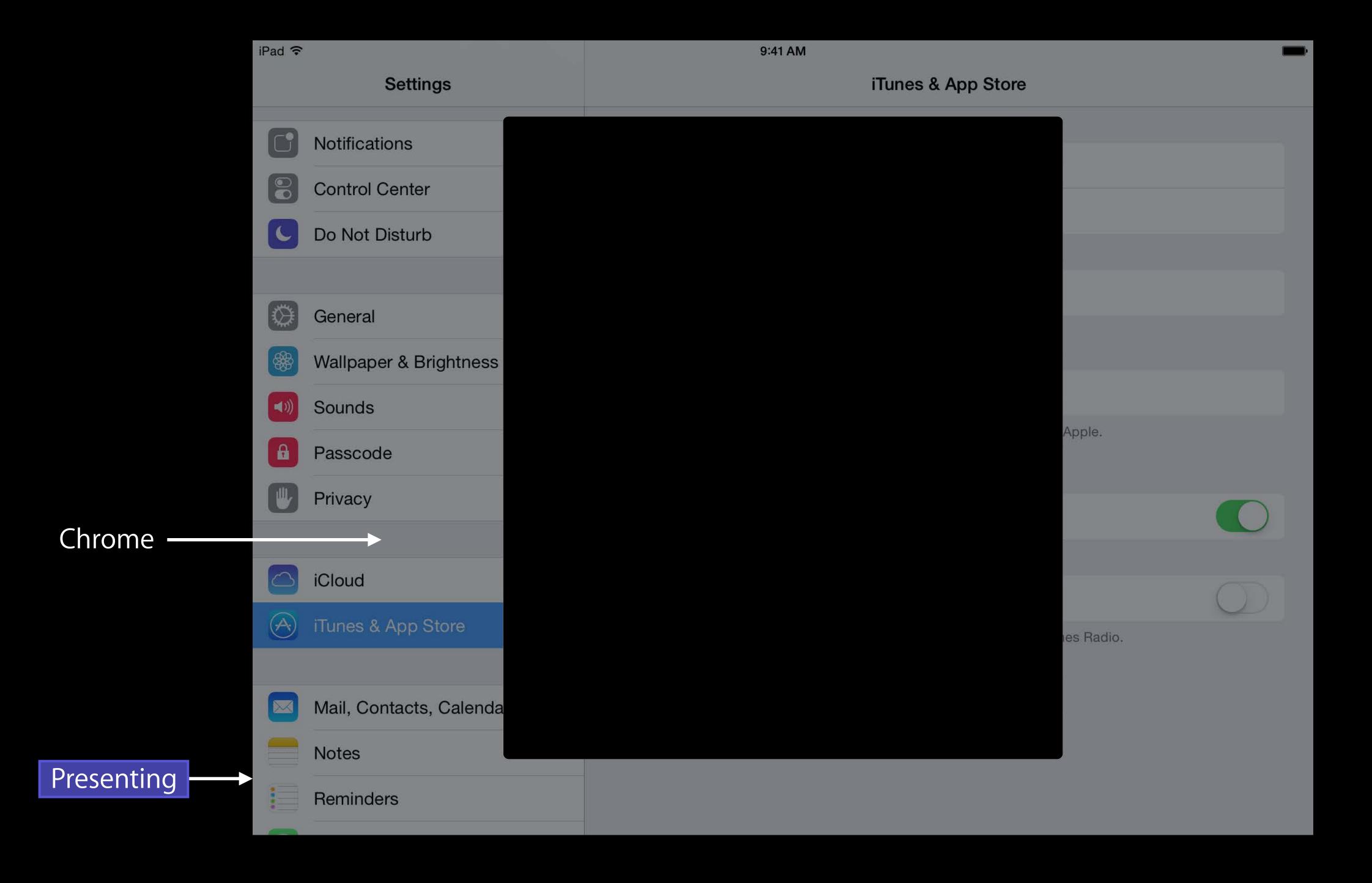
Presented



Presented

Content

New Account Cancel CONFIRM YOUR COUNTRY OR REGION Choose a country or region for the Store that will match the billing address for your payment method, then tap Next. **United States** Albania Algeria Angola Anguilla Antigua and Barbuda Argentina Armenia Australia Azerbaijan Next



Hello, UlPresentationController



Hello, UlPresentationController



Presentation management

Hello, UIPresentationController



Presentation management

Animates

Hello, UlPresentationController



Presentation management

Animates

Trait and size changes

Hello, UlPresentationController

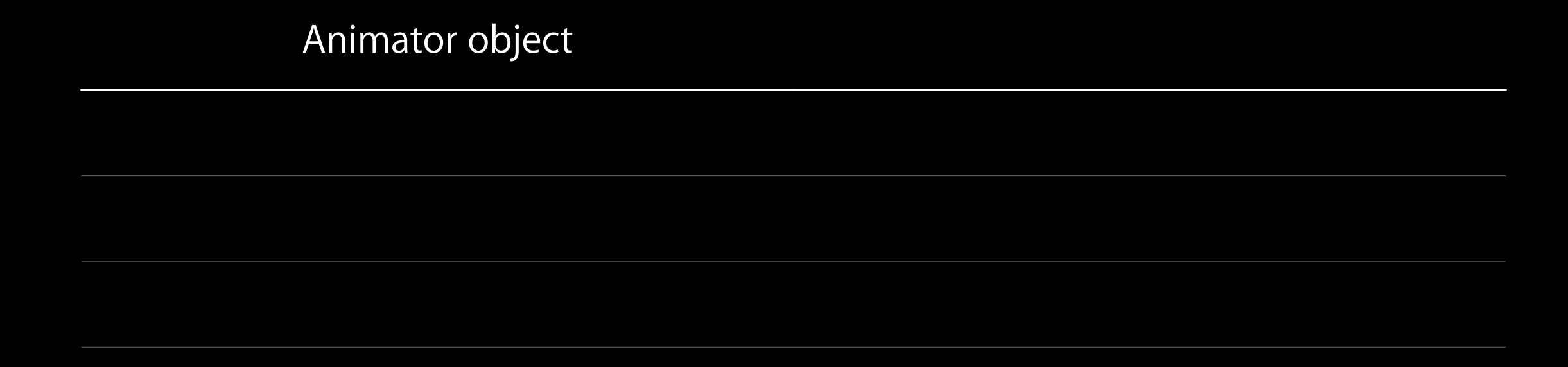


Presentation management

Animates

Trait and size changes

Reusable



Division of responsibilities

Animator object

Animating controller content

Division of responsibilities

Animator object

Animating controller content

Positioning

Division of responsibilities

Animator object

Animating controller content

Positioning

Chrome

Animator object	Presentation controller
Animating controller content	
Positioning	
Chrome	

Animator object	Presentation controller
Animating controller content	Positioning
	Chrome

Animator object	Presentation controller
Animating controller content	Positioning
	Chrome
	Adaptation

UlKit Presentations

Popovers, alerts, action sheets, and search





Replacing UlPopoverController



Replacing UIPopoverController

Functionally equivalent



Replacing UIPopoverController

Functionally equivalent

Built-in adaptivity

UIPopoverController Old API



```
UIViewController *contentController = ...;

UIPopoverController *poc = [[UIPopoverController alloc]
initWithContentViewController:contentController];
[poc presentPopoverFromBarButtonItem:item
permittedArrowDirections:UIPopoverArrowDirectionAny animated:YES];
```

UIPopoverController Old API



```
UIViewController *contentController = ...;
if([[UIDevice currentDevice] userInterfaceIdiom] == UIUserInterfaceIdiomPad)
    UIPopoverController *poc = [[UIPopoverController alloc]
initWithContentViewController:contentController];
    [poc presentPopoverFromBarButtonItem:item
permittedArrowDirections:UIPopoverArrowDirectionAny animated:YES];
else
    [self presentViewController:contentController ...];
```



```
contentController.modalPresentationStyle = UIModalPresentationPopover;

UIPopoverPresentationController *popPC =
contentController.popoverPresentationController;
popPC.barButtonItem = item;
popPC.permittedArrowDirections = UIPopoverArrowDirectionAny;

[self presentViewController:contentController animated:YES completion:nil];
```





contentController.modalPresentationStyle = UIModalPresentationPopover;

```
UIPopoverPresentationController *popPC =
contentController.popoverPresentationController;
popPC.barButtonItem = item;
popPC.permittedArrowDirections = UIPopoverArrowDirectionAny;
[self presentViewController:contentController animated:YES completion:nil];
```



```
contentController.modalPresentationStyle = UIModalPresentationPopover;

UIPopoverPresentationController *popPC =
contentController.popoverPresentationController;
popPC.barButtonItem = item;
popPC.permittedArrowDirections = UIPopoverArrowDirectionAny;

[self presentViewController:contentController animated:YES completion:nil];
```



```
contentController.modalPresentationStyle = UIModalPresentationPopover;

UIPopoverPresentationController *popPC =
contentController.popoverPresentationController;
popPC.barButtonItem = item;
popPC.permittedArrowDirections = UIPopoverArrowDirectionAny;

[self presentViewController:contentController animated:YES completion:nil];
```



```
contentController.modalPresentationStyle = UIModalPresentationPopover;

UIPopoverPresentationController *popPC = 
contentController.popoverPresentationController;
popPC.barButtonItem = item;
popPC.permittedArrowDirections = UIPopoverArrowDirectionAny;

[self presentViewController:contentController animated:YES completion:nil];
```

Demo

Adaptive popovers

```
contentController.modalPresentationStyle = UIModalPresentationPopover;

UIPopoverPresentationController *popPC =
contentController.popoverPresentationController;
popPC.barButtonItem = item;
popPC.permittedArrowDirections = UIPopoverArrowDirectionAny;

[self presentViewController:contentController animated:YES completion:nil];
```

```
contentController.modalPresentationStyle = UIModalPresentationPopover;

UIPopoverPresentationController *popPC =
contentController.popoverPresentationController;
popPC.barButtonItem = item;
popPC.permittedArrowDirections = UIPopoverArrowDirectionAny;
popPC.delegate = self;

[self presentViewController:contentController animated:YES completion:nil];
```

```
- (UIModalPresentationStyle)adaptivePresentationStyleForPresentationController:
(UIPresentationController *)controller
{
    return UIModalPresentationFullScreen;
}
```

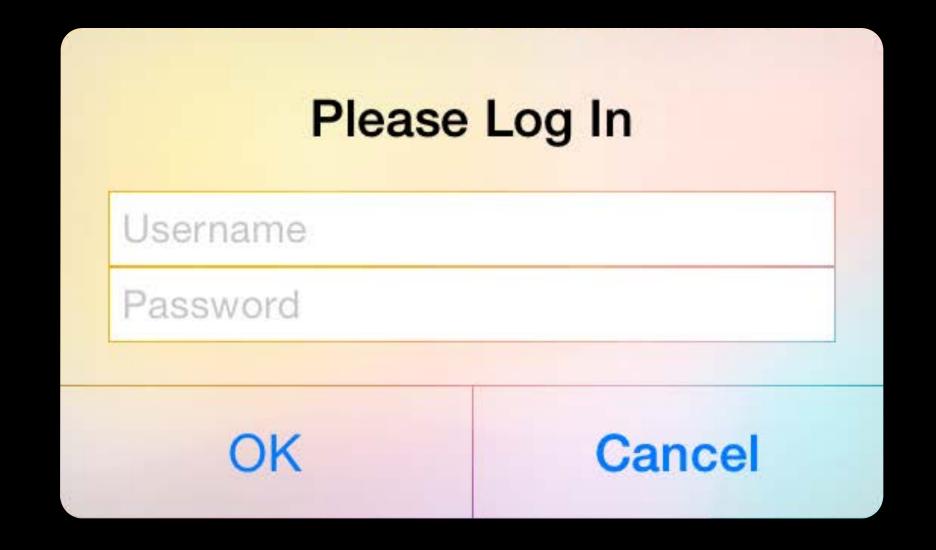
```
- (UIModalPresentationStyle)adaptivePresentationStyleForPresentationController:
(UIPresentationController *)controller
    return UIModalPresentationFullScreen;
 (UIViewController *)presentationController:(UIPresentationController
*)controller viewControllerForAdaptivePresentationStyle:
(UIModalPresentationStyle)style
    UINavigationController *navController = [[UINavigationController alloc]
initWithRootViewController:controller.presentedViewController];
    return navController;
```

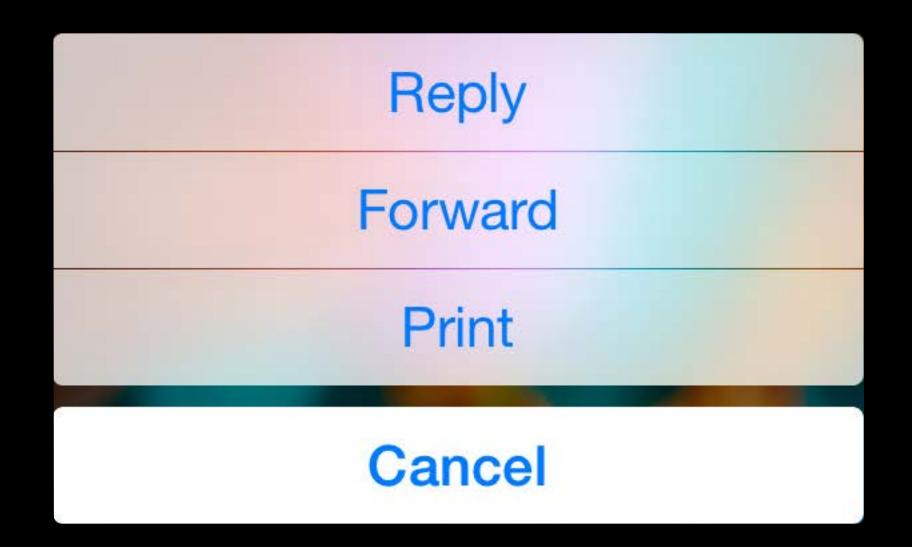
UlAlertView and UlActionSheet



UIAlertView and UIActionSheet



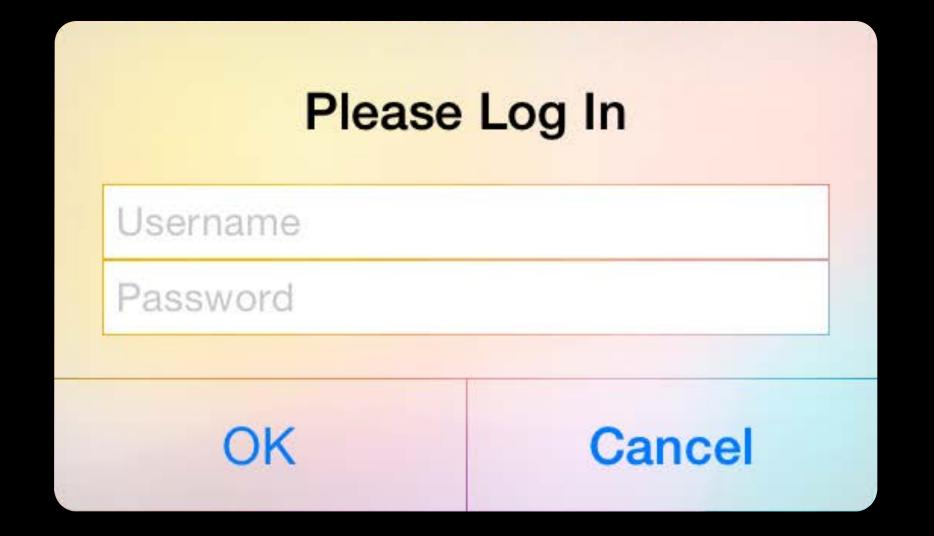


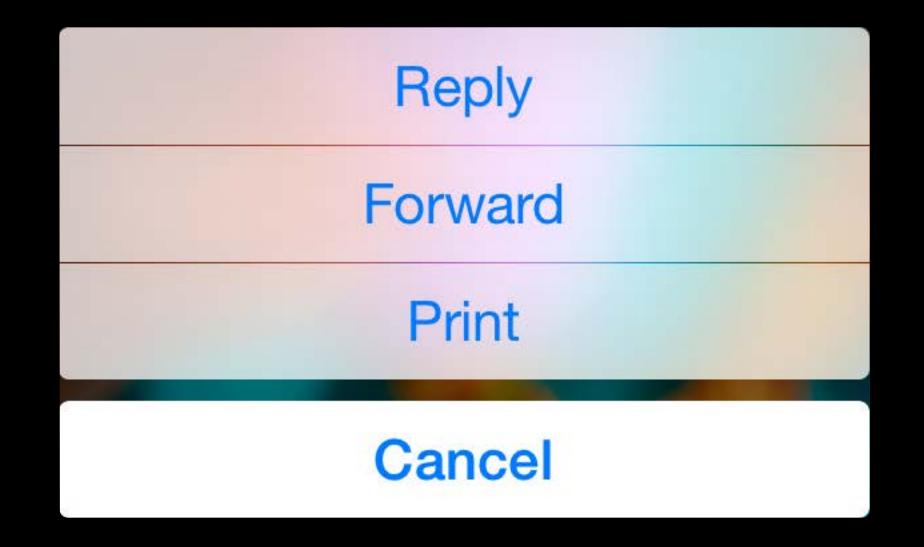


Alerts and Action Sheets UlAlertView and UlActionSheet



Used to be plain views



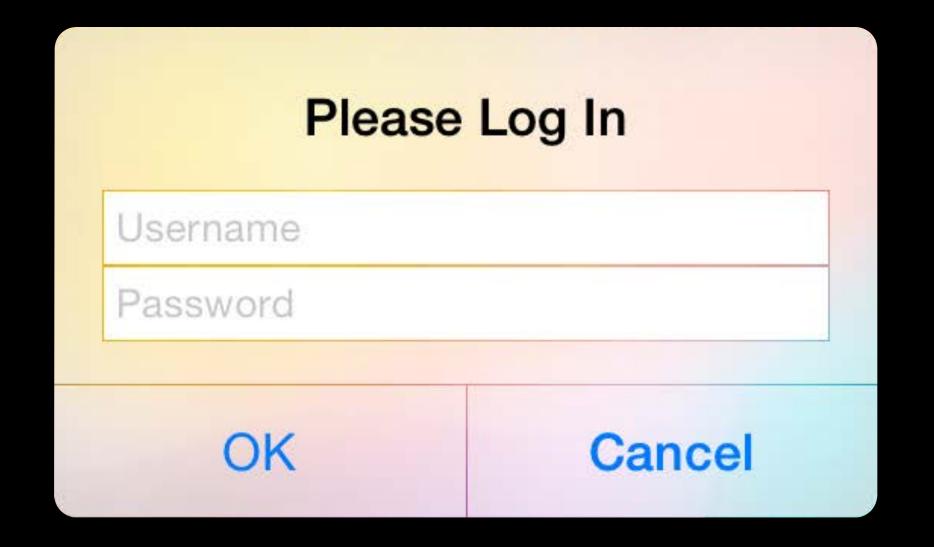


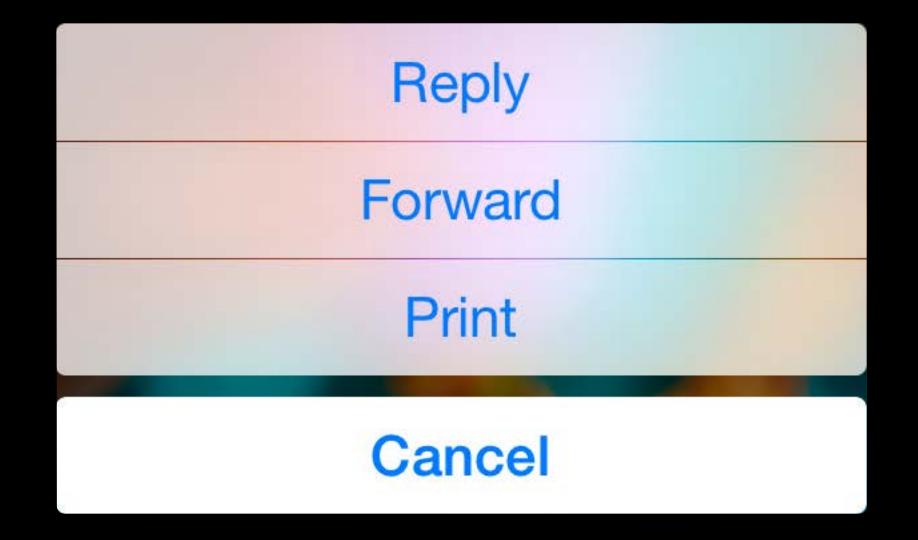
Alerts and Action Sheets UlAlertView and UlActionSheet



Used to be plain views

New window for presentation





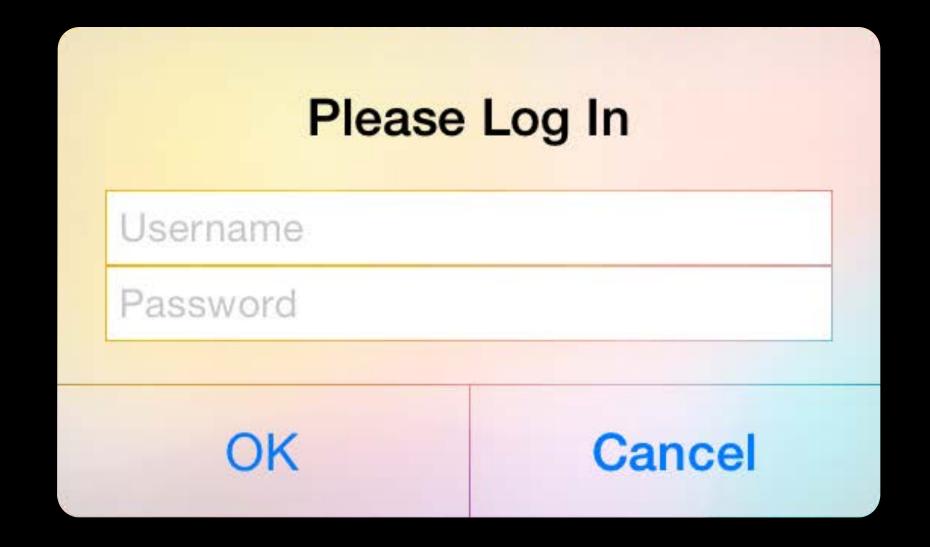
Alerts and Action Sheets UlAlertView and UlActionSheet

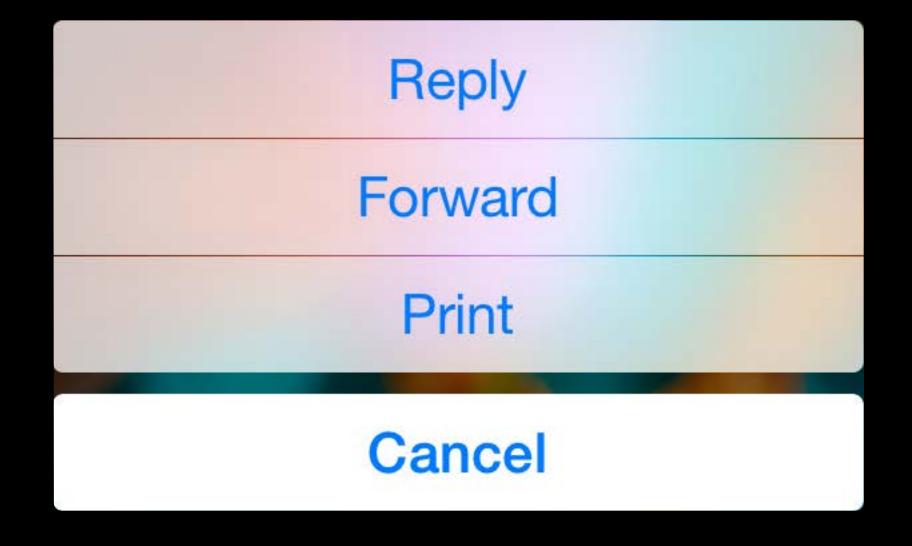


Used to be plain views

New window for presentation

Predate modern language features





Alerts and Action Sheets Old alerts presentation



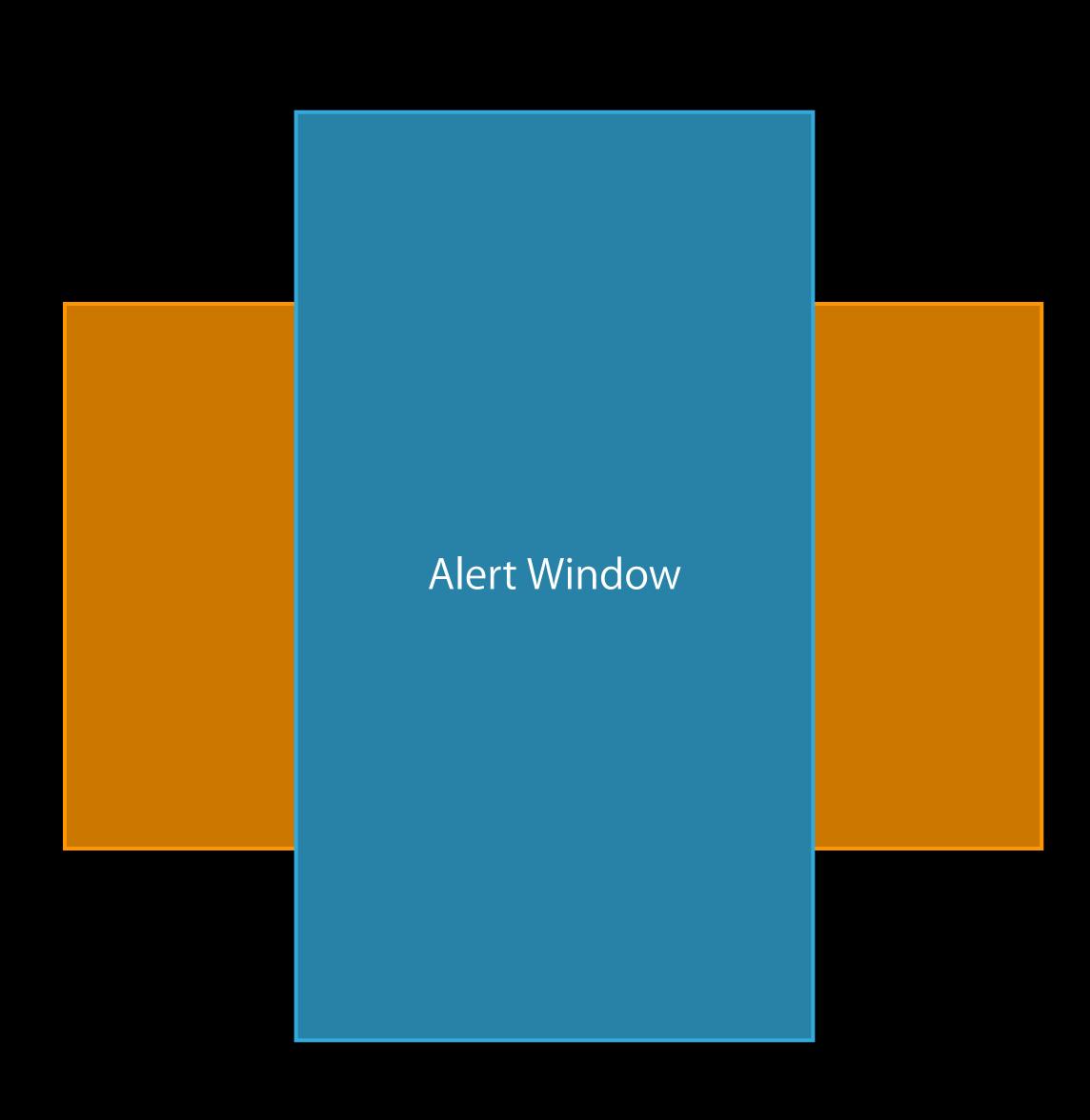
Alerts and Action Sheets Old alerts presentation



App Content

Old alerts presentation





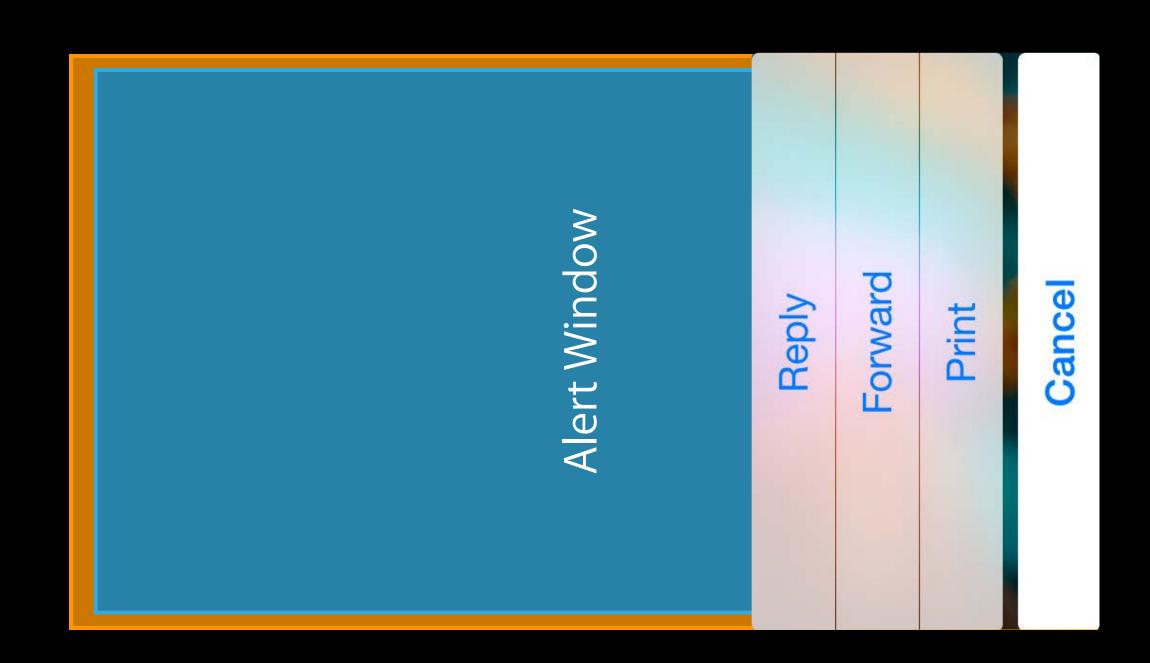
Old alerts presentation



Alert Window

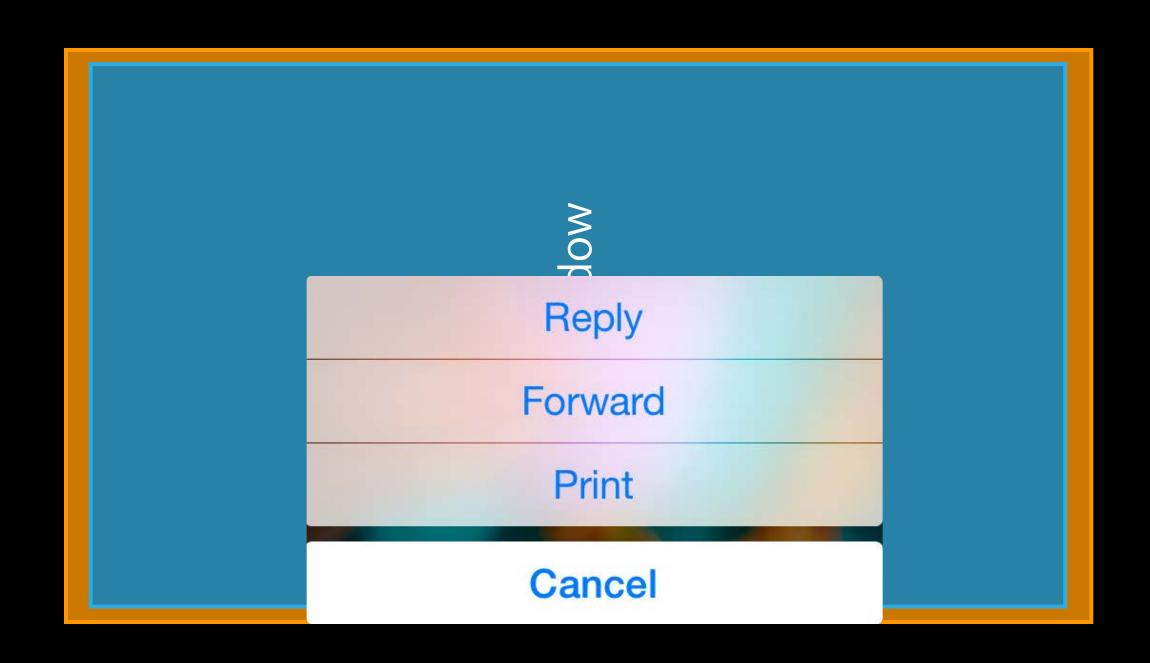
Old alerts presentation





Old alerts presentation









Used for alerts and action sheets



Used for alerts and action sheets
Block based



Used for alerts and action sheets

Block based

Presents in your window



Used for alerts and action sheets

Block based

Presents in your window

Action sheets adapt to popovers



```
UIAlertController* sheet = [UIAlertController alertControllerWithTitle:...];
[sheet addAction:[UIAlertAction actionWithTitle:@"Reply"
style:UIAlertActionStyleDefault handler:^void (UIAlertAction *action)
{
    // do stuff
}];
[self presentViewController:sheet...];
```



```
UIAlertController* sheet = [UIAlertController alertControllerWithTitle:...];
[sheet addAction:[UIAlertAction actionWithTitle:@"Reply"
style:UIAlertActionStyleDefault handler:^void (UIAlertAction *action)
{
    // do stuff
}];
[self presentViewController:sheet...];
```



```
UIAlertController* sheet = [UIAlertController alertControllerWithTitle:...];
[sheet addAction: [UIAlertAction actionWithTitle:@"Reply"
style:UIAlertActionStyleDefault handler:^void (UIAlertAction *action)
{
    // do stuff
}];
[self presentViewController:sheet...];
```



```
UIAlertController* sheet = [UIAlertController alertControllerWithTitle:...];
[sheet addAction:[UIAlertAction actionWithTitle:@"Reply"
style:UIAlertActionStyleDefault handler:^void (UIAlertAction *action)
{
    // do stuff
}];
[self presentViewController:sheet...];
```





Limited configurability

Limited configurability
Ambiguous intent

Limited configurability

Ambiguous intent

"Presented" via addSubview:

Search UISearchDisplayController



Limited configurability

Ambiguous intent

"Presented" via addSubview:

Search Bar

Search UlSearchDisplayController



Limited configurability

Ambiguous intent

"Presented" via addSubview:

Search Bar

Search Content

Search UlSearchDisplayController



Limited configurability

Ambiguous intent

"Presented" via addSubview:

Search Bar

Search Content





Replaces UISearchDisplayController



Replaces UISearchDisplayController

Any presenting controller



Replaces UISearchDisplayController

Any presenting controller

Decoupled results



Replaces UISearchDisplayController

Any presenting controller

Decoupled results

Search bar animation



Replaces UISearchDisplayController

Any presenting controller

Decoupled results

Search bar animation

Adaptivity



Replaces UISearchDisplayController

Any presenting controller

Decoupled results

Search bar animation

Adaptivity

More control, fewer assumptions

UISearchDisplayController Old API



```
UISearchBar *searchBar = [[UISearchBar alloc] initWithFrame:CGRectZero];
UISearchDisplayController *searchController = [[UISearchDisplayController
alloc] initWithSearchBar:searchBar contentsController:self];
searchController.searchResultsDataSource = self;
searchController.searchResultsDelegate = self;
self.tableView.tableHeaderView = searchController.searchBar;
```



```
MyResultsController *resultsController = [[MyResultsController alloc] init];

UISearchController *searchController = [[UISearchController alloc] initWithSearchResultsController:resultsController];
searchController.searchResultsUpdater = resultsController;
self.tableView.tableHeaderView = searchController.searchBar;
self.definesPresentationContext = YES;
```

New API



MyResultsController *resultsController = [[MyResultsController alloc] init];

```
UISearchController *searchController = [[UISearchController alloc]
initWithSearchResultsController:resultsController];
searchController.searchResultsUpdater = resultsController;
self.tableView.tableHeaderView = searchController.searchBar;
self.definesPresentationContext = YES;
```



```
MyResultsController *resultsController = [[MyResultsController alloc] init];

UISearchController *searchController = [[UISearchController alloc]
initWithSearchResultsController:resultsController];
searchController.searchResultsUpdater = resultsController;
self.tableView.tableHeaderView = searchController.searchBar;
self.definesPresentationContext = YES;
```



```
MyResultsController *resultsController = [[MyResultsController alloc] init];

UISearchController *searchController = [[UISearchController alloc] initWithSearchResultsController:resultsController];
searchController.searchResultsUpdater = resultsController;
self.tableView.tableHeaderView = searchController.searchBar;
self.definesPresentationContext = YES;
```



```
MyResultsController *resultsController = [[MyResultsController alloc] init];

UISearchController *searchController = [[UISearchController alloc] initWithSearchResultsController:resultsController];
searchController.searchResultsUpdater = resultsController;
self.tableView.tableHeaderView = searchController.searchBar;
self.definesPresentationContext = YES;
```



```
MyResultsController *resultsController = [[MyResultsController alloc] init];

UISearchController *searchController = [[UISearchController alloc] initWithSearchResultsController:resultsController];
searchController.searchResultsUpdater = resultsController;
self.tableView.tableHeaderView = searchController.searchBar;
self.definesPresentationContext = YES;
```

New API



Navigation Bar

Search Bar

Table View Controller

Tab Bar

New API



Navigation Bar

Search Bar

Table View Controller

Tab Bar

Search Bar

Search Results

Tab Bar

New API



Navigation Bar

Search Bar

Table View Controller

Tab Bar

Search Bar

Search Results

Tab Bar

New API



Navigation Bar

Search Bar

Table View Controller

Tab Bar

Search Bar

Search Results

UIPresentationController

Benefits

UlPresentationController Benefits

Controllers all the way down

UlPresentationController Benefits

Controllers all the way down

Content and chrome abstraction

UIPresentationController Benefits

Controllers all the way down

Content and chrome abstraction

Adaptivity

Demo

Let's build something new

Presenting the Overlay View Controller

Main view controller

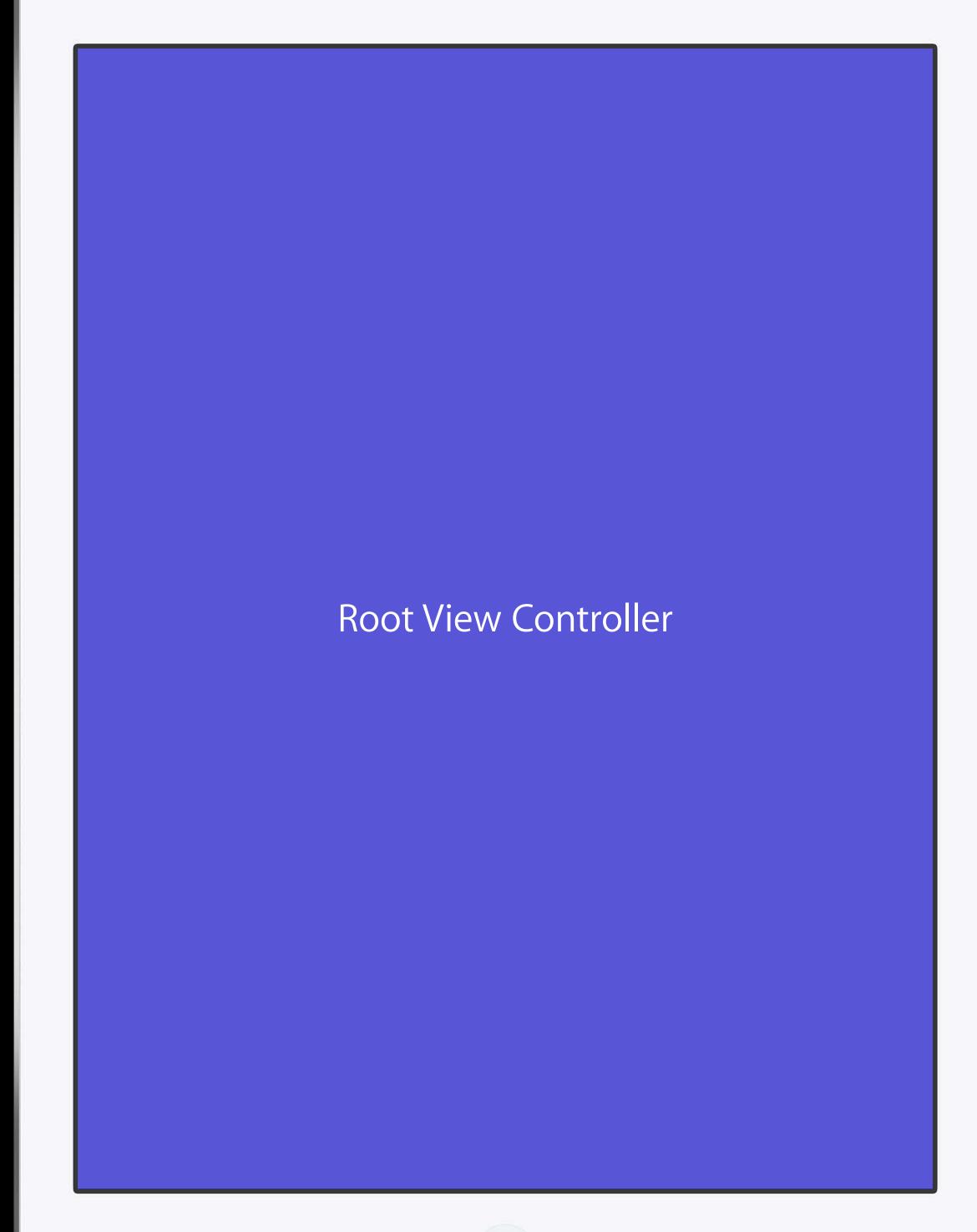
```
OverlayViewController* overlay = [[OverlayViewController alloc] init];
[overlay setPhoto:photo];
[self presentViewController:overlay animated:YES completion:NULL];
```

Presenting the Overlay View Controller

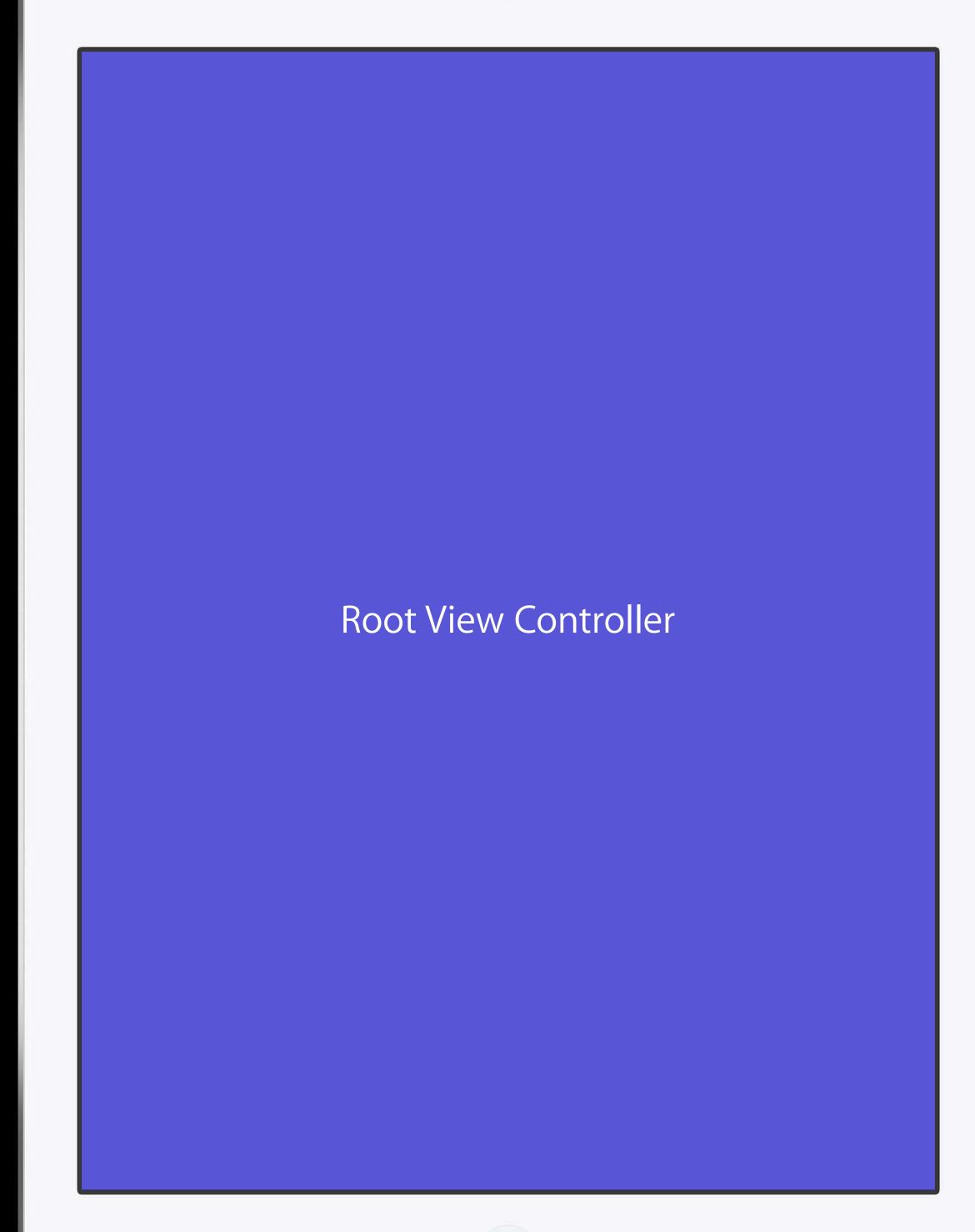
Main view controller

```
OverlayViewController* overlay = [[OverlayViewController alloc] init];
[overlay setPhoto:photo];
```

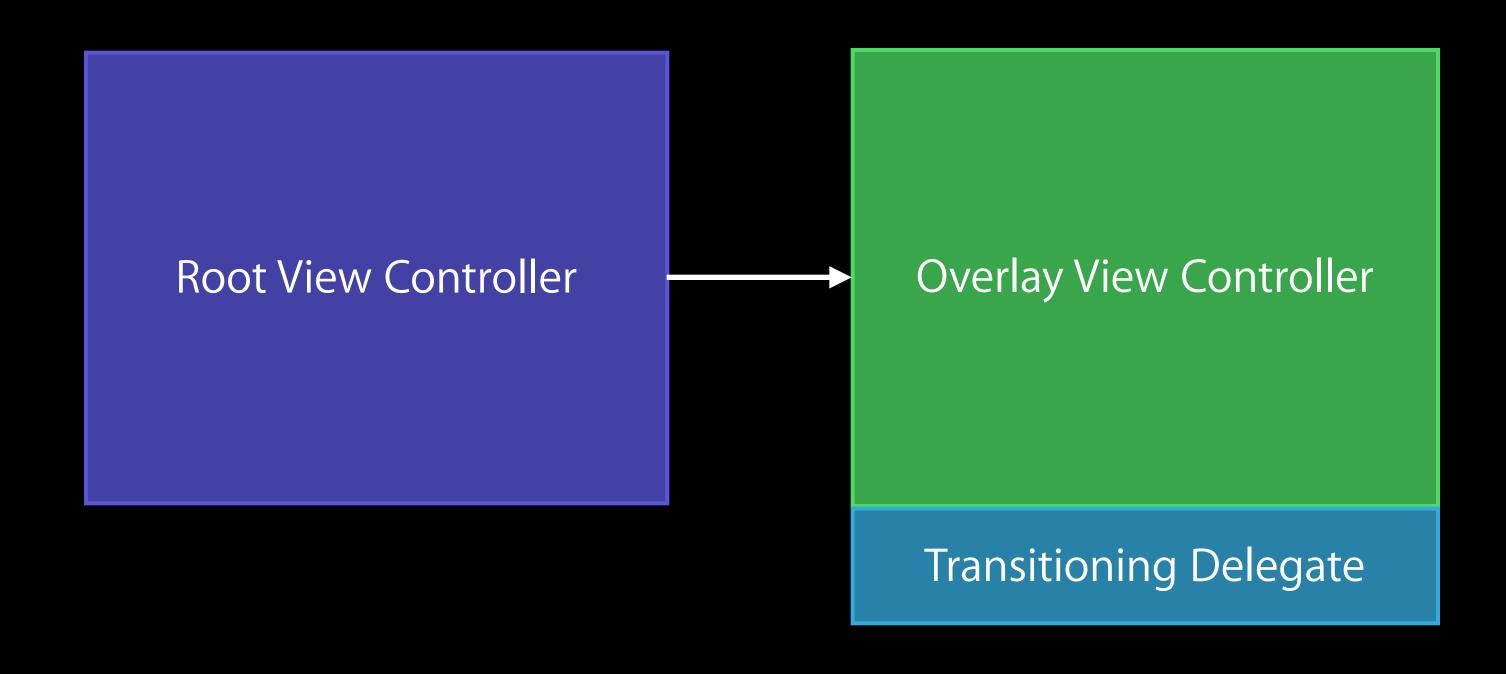
[self presentViewController:overlay animated:YES completion:NULL];

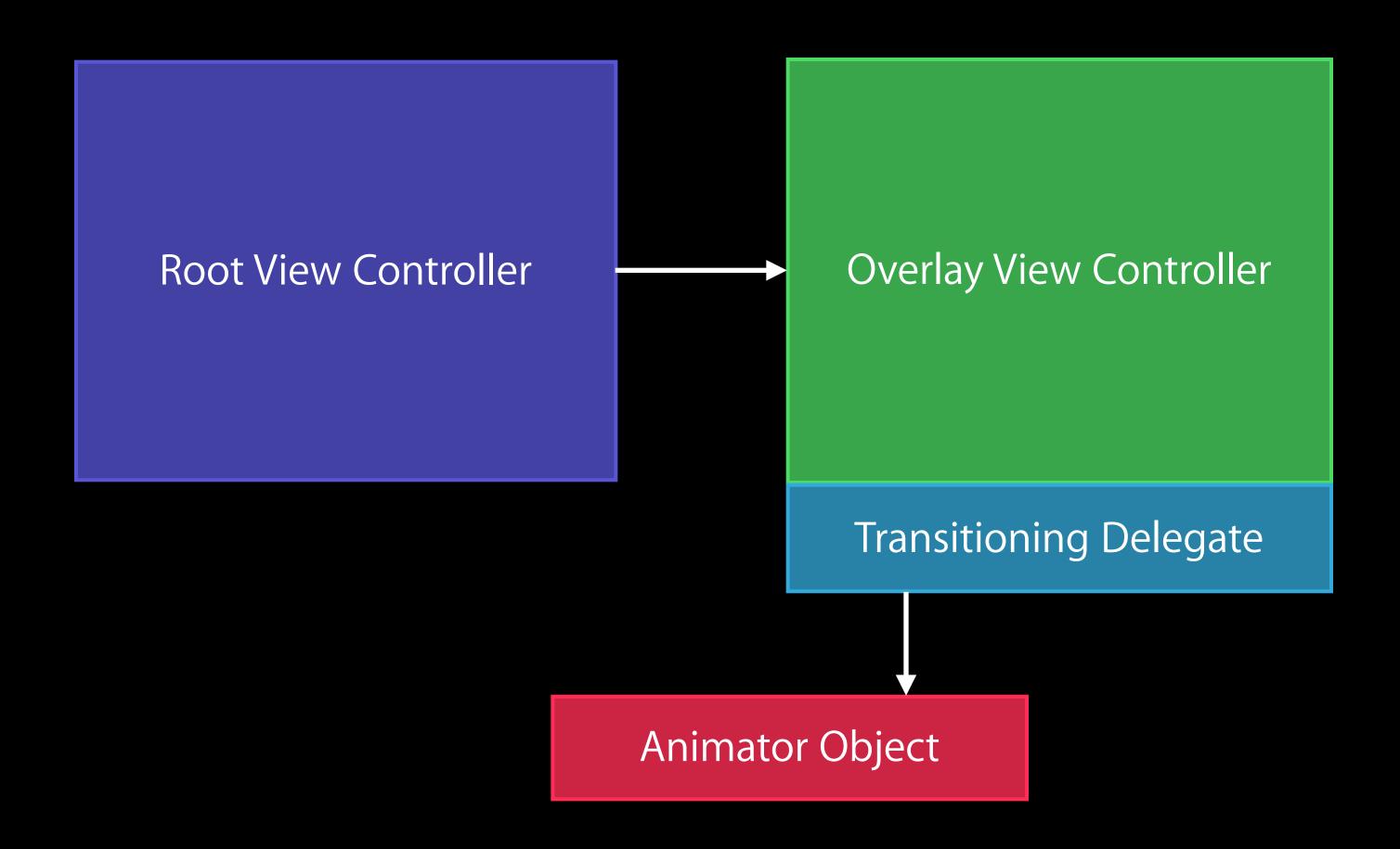


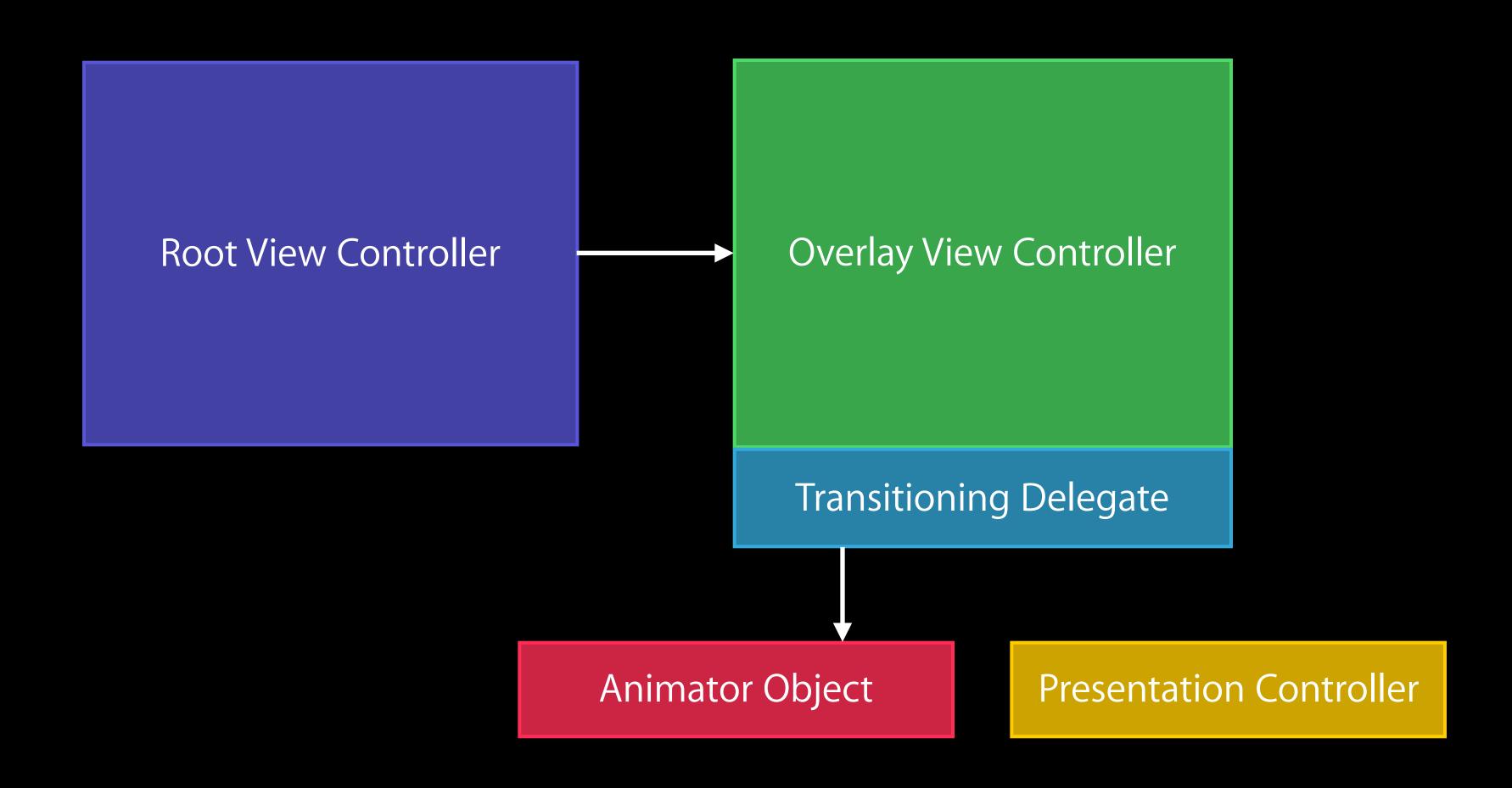
Overlay View Controller



Overlay View Controller Root View Controller







Root view controller

```
transitionDelegate = [[OverlayTransitioningDelegate alloc] init];
[overlayViewController setTransitioningDelegate:transitionDelegate];
```

Customizing the Overlay Presentation Root view controller

```
transitionDelegate = [[OverlayTransitioningDelegate alloc] init];
[overlayViewController setTransitioningDelegate:transitionDelegate];
```



Customizing the Overlay Presentation Overlay view controller

[self setModalPresentationStyle:UIModalPresentationCustom];

TD

Customizing the Overlay Presentation Providing a custom UlPresentation Controller

Customizing the Overlay Presentation

```
    (void)presentationTransitionWillBegin

    UIView* containerView = [self containerView];
    UIViewController* presentedViewController = [self
presentedViewController];
    [dimmingView setFrame:[containerView bounds]];
    [dimmingView setAlpha:0.0];
    [containerView insertSubview:dimmingView atIndex:0];
    [[presentedViewController transitionCoordinator]
animateAlongsideTransition:^(id<UIViewControllerTransitionCoordinatorContext>
context) {
        [dimmingView setAlpha:1.0];
    } completion:nil];
```

Customizing the Overlay Presentation

```
    (void)presentationTransitionWillBegin

    UIView* containerView = [self containerView];
    UIViewController* presentedViewController = [self
presentedViewController];
    [dimmingView setFrame:[containerView bounds]];
    [dimmingView setAlpha:0.0];
    [containerView insertSubview:dimmingView atIndex:0];
    [[presentedViewController transitionCoordinator]
animateAlongsideTransition:^(id<UIViewControllerTransitionCoordinatorContext>
context) {
        [dimmingView setAlpha:1.0];
    } completion:nil];
```

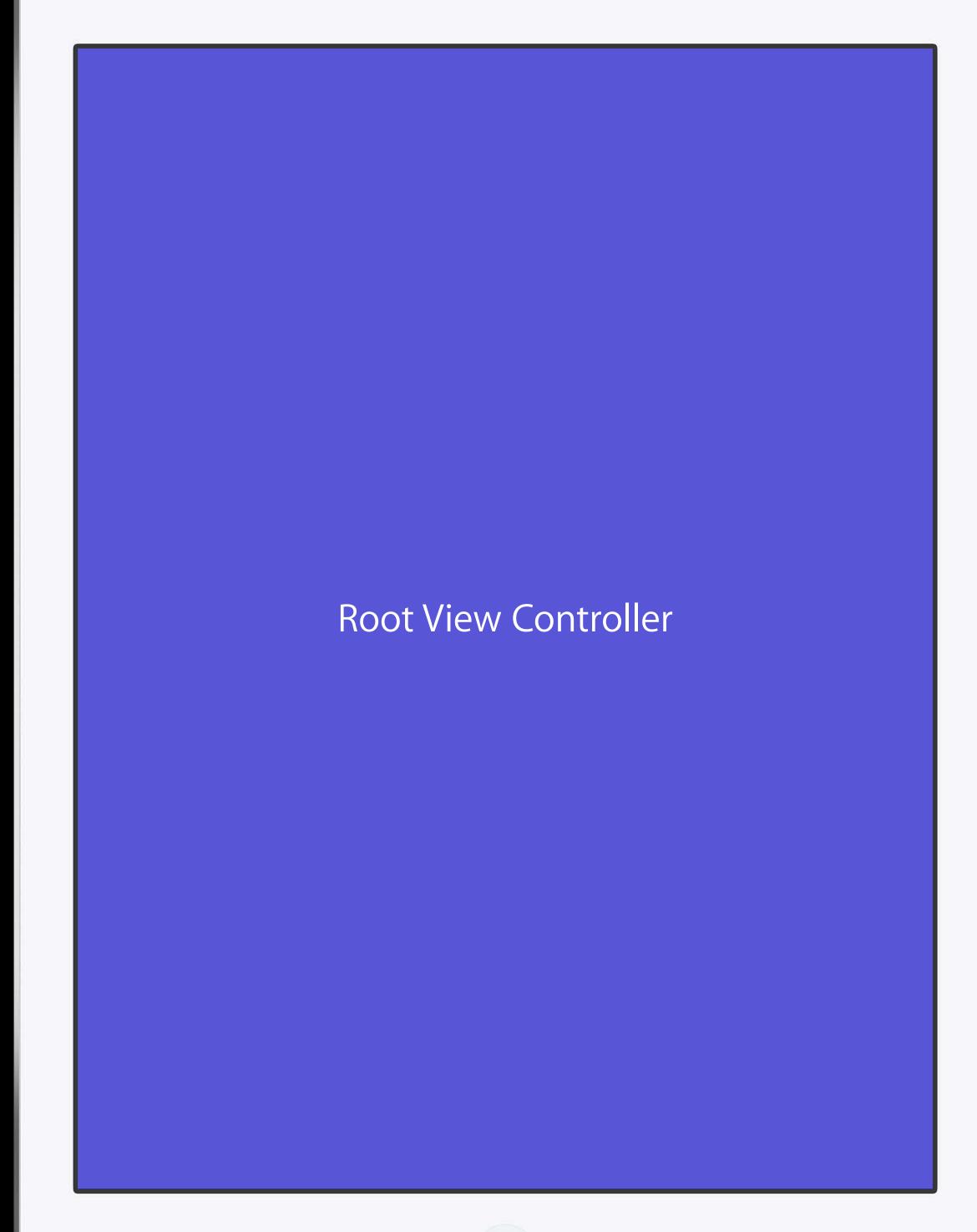
Customizing the Overlay Presentation

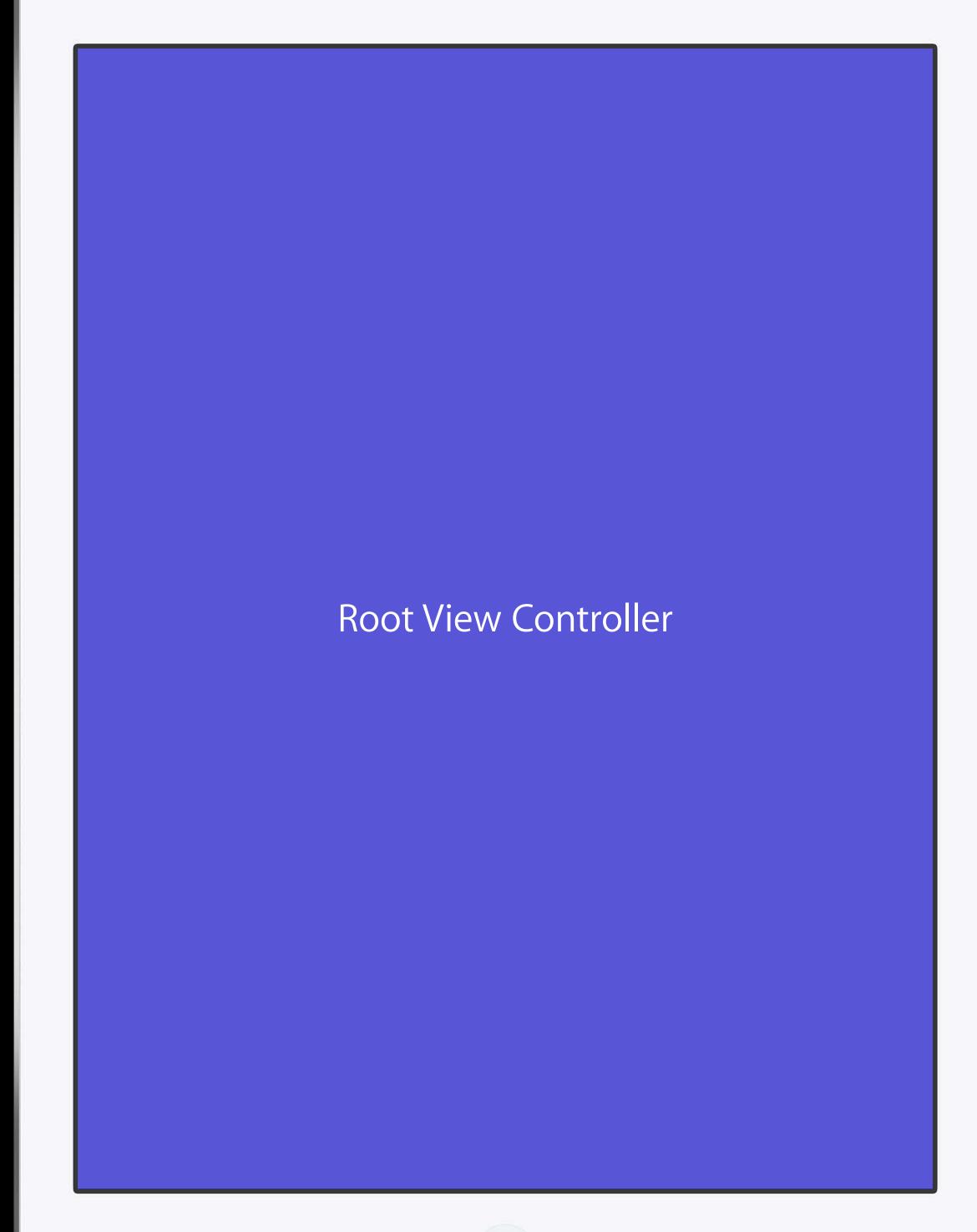
```
    (void)presentationTransitionWillBegin

    UIView* containerView = [self containerView];
    UIViewController* presentedViewController = [self
presentedViewController];
    [dimmingView setFrame:[containerView bounds]];
    [dimmingView setAlpha:0.0];
    [containerView insertSubview:dimmingView atIndex:0];
    [[presentedViewController transitionCoordinator]
animateAlongsideTransition:^(id<UIViewControllerTransitionCoordinatorContext>
context) {
        [dimmingView setAlpha:1.0];
      completion:nil];
```

Customizing the Overlay Presentation

```
- (void)dismissalTransitionWillBegin
{
    [[[self presentedViewController] transitionCoordinator]
animateAlongsideTransition:^(id<UIViewControllerTransitionCoordinatorContext>
context) {
        [dimmingView setAlpha:0.0];
    } completion:nil];
}
```





TD

Customizing the Overlay Presentation

Transitioning delegate animations

```
- (id <UIViewControllerAnimatedTransitioning>)
animationControllerForPresentedController:(UIViewController *)presented
presentingController:(UIViewController *)presenting
sourceController:(UIViewController *)source
{
    OverlayAnimatedTransitioning *animationController =
[[OverlayAnimatedTransitioning alloc] init];
    return animationController;
}
```

TD

Customizing the Overlay Presentation

Transitioning delegate animations

```
- (id <UIViewControllerAnimatedTransitioning>)
animationControllerForDismissedController:(UIViewController *)dismissed
{
    OverlayAnimatedTransitioning *animationController =
[[OverlayAnimatedTransitioning alloc] init];
    return animationController;
}
```

Customizing the Overlay Presentation

Presented view controller sizing

Customizing the Overlay Presentation Presented view controller sizing

```
(CGRect)frameOfPresentedViewInContainerView
    CGRect presentedViewFrame = CGRectZero;
   CGRect containerBounds = [[self containerView] bounds];
   presentedViewFrame.size = [self sizeForChildContentContainer:
(UIView<UIContentContainer> *)[self presentedView]
   withParentContainerSize:containerBounds.size];
   presentedViewFrame.origin.x = containerBounds.size.width -
presentedViewFrame.size.width;
   return presentedViewFrame;
```

Overlay View Controller Root View Controller

Root View Controller Overlay View Controller

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0

Overlay View Controller Root View Controller

Customizing the Overlay Presentation

Adding rotation support

```
(void)containerViewWillLayoutSubviews
[dimmingView setFrame:[[self containerView] bounds]];
   [[self presentedView] setFrame:[self frameOfPresentedViewInContainerView]];
```

Customizing the Overlay Presentation

Adding rotation support

```
(void)containerViewWillLayoutSubviews
[dimmingView setFrame:[[self containerView] bounds]];
   [[self presentedView] setFrame:[self frameOfPresentedViewInContainerView]];
```

UlViewController

UlViewController

UIPresentationController

UlViewController

UIPresentationController

Environment changes

Transitioning to size

Transitioning to size

- (void)viewWillTransitionToSize:(CGSize)size withTransitionCoordinator: (id<UIViewControllerTransitionCoordinator>)coordinator

Transitioning to size

- (void)viewWillTransitionToSize:(CGSize)size withTransitionCoordinator: (id<UIViewControllerTransitionCoordinator>)coordinator
- (CGSize)sizeForChildContentContainer:(id <UIContentContainer>)container withParentContainerSize:(CGSize)parentSize

Transitioning to size

Transitioning to size

Root Controller

Child 1

Child 2

Transitioning to size

[root presentViewController:presented ...];

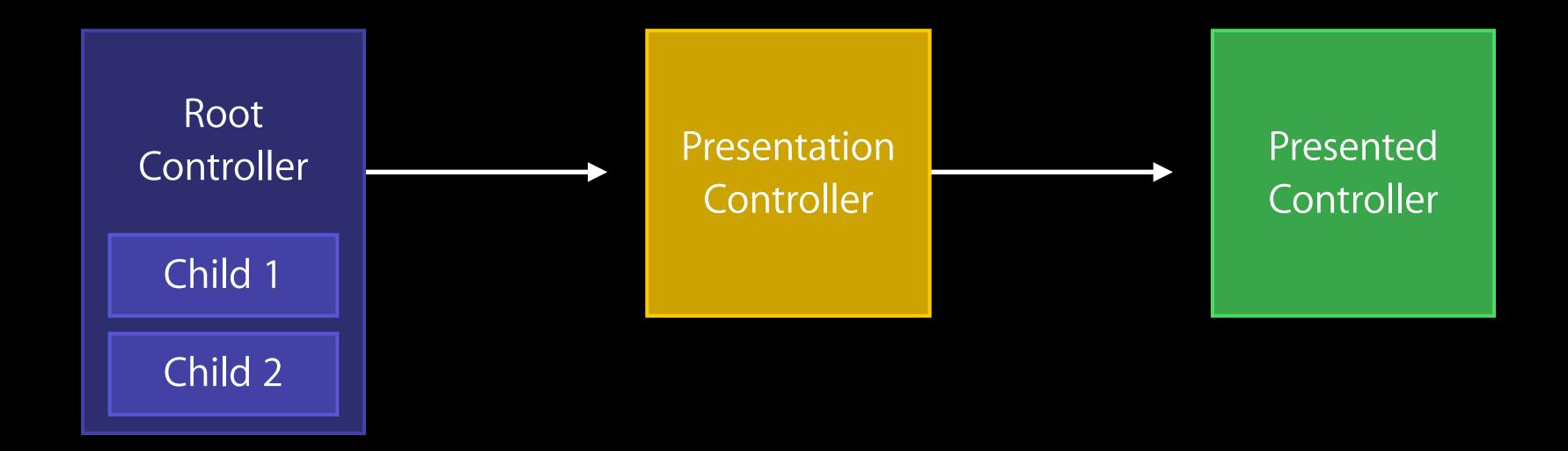
Root Controller

Child 1

Child 2

Transitioning to size

[root presentViewController:presented ...];



Transitioning to size

Root Controller

Child 1

Child 2

Presentation Controller

Transitioning to size

viewWillTransitionToSize:withTransitionCoordinator:

Root Controller

Child 1

Child 2

Presentation Controller

Transitioning to size

viewWillTransitionToSize:withTransitionCoordinator:

Root Controller

Child 1

Child 2

Presentation Controller

Transitioning to size

viewWillTransitionToSize:withTransitionCoordinator:

Root Controller

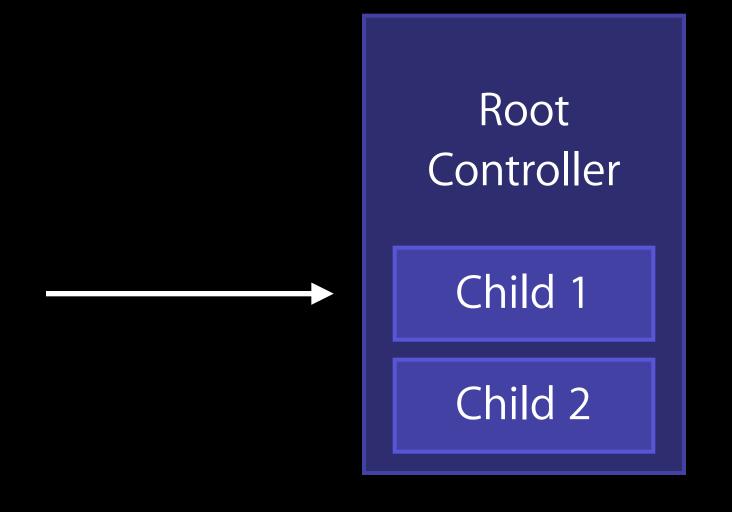
Child 1

Child 2

Presentation Controller

Transitioning to size

viewWillTransitionToSize:withTransitionCoordinator:



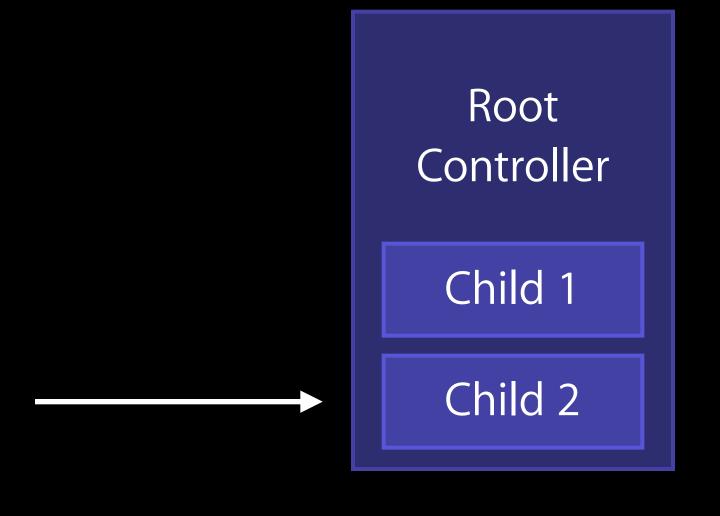
Presentation Controller

Presented Controller

[Root sizeForChildContentContainer:Child1 withParentContainerSize:size]

Transitioning to size

viewWillTransitionToSize:withTransitionCoordinator:



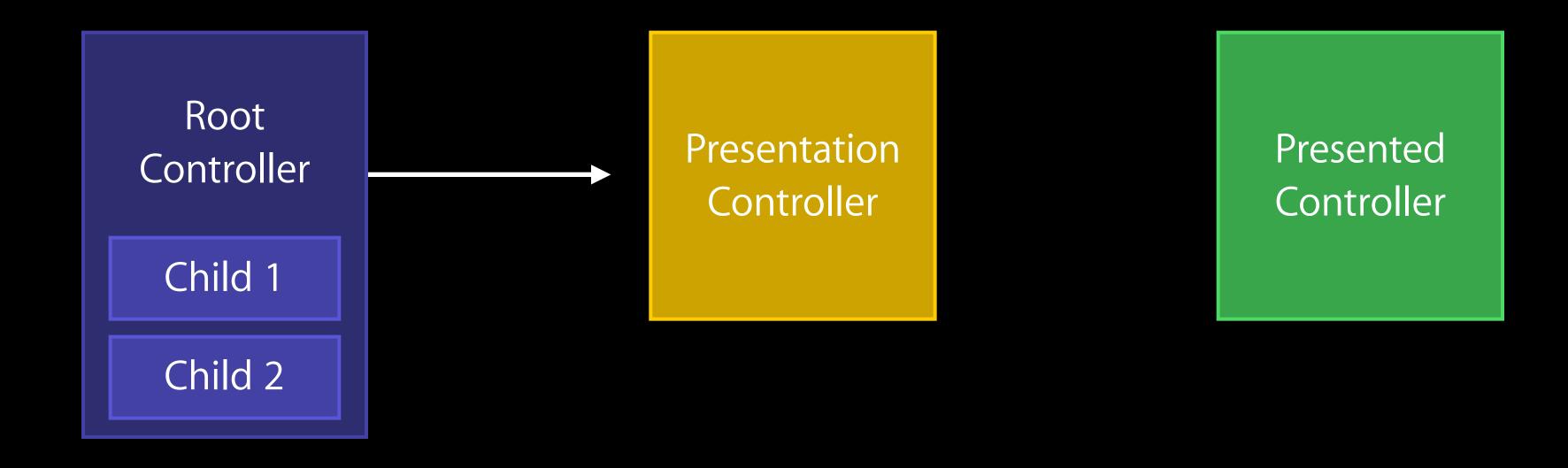
Presentation Controller

Presented Controller

[Root sizeForChildContentContainer:Child2 withParentContainerSize:size]

Transitioning to size

viewWillTransitionToSize:withTransitionCoordinator:



Transitioning to size

viewWillTransitionToSize:withTransitionCoordinator:

Root Controller

Child 1

Child 2

Presentation Controller

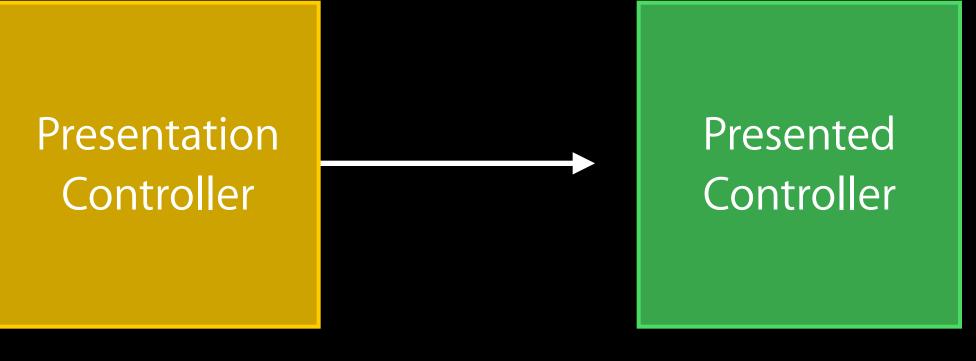
Presented Controller

[Presentation sizeForChildContentContainer:Presented withParentContainerSize:size]

Transitioning to size

viewWillTransitionToSize:withTransitionCoordinator:





Preferred content size

Preferred content size

@property (nonatomic, readonly) CGSize preferredContentSize

Preferred content size

```
@property (nonatomic, readonly) CGSize preferredContentSize
```

- (void)preferredContentSizeDidChangeForChildContentContainer:(id <UIContentContainer>)container

Preferred content size

Root Controller

Child 1

Child 2

Presentation Controller

Presented Controller

Preferred content size

setPreferredContentSize:

Root Controller

Child 1

Child 2

Presentation Controller

Presented Controller

Preferred content size

preferredContentSizeDidChangeForChildContentContainer:

Root Controller

Child 1

Child 2

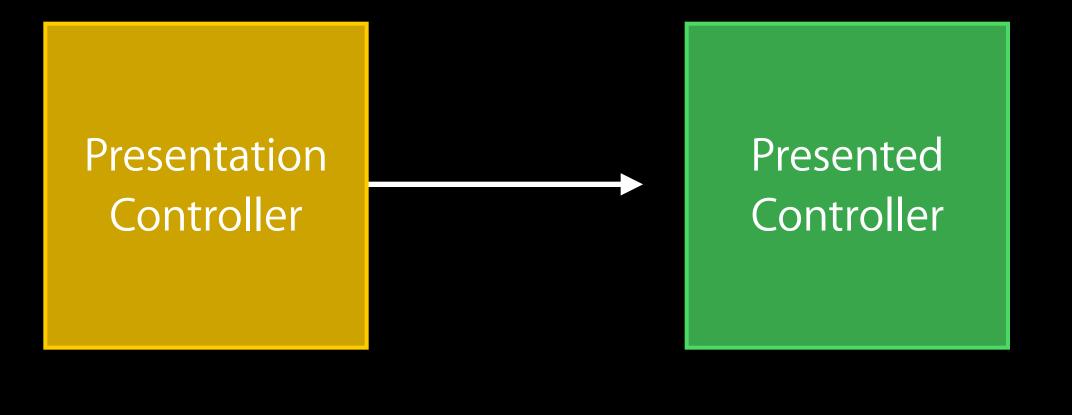
Presentation Controller

Presented Controller

Preferred content size

viewWillTransitionToSize:withTransitionCoordinator:





Preferred content size

Root Controller

Child 1

Child 2

Presentation Controller

Presented Controller

Trait collections

Trait collections

```
- (void)willTransitionToTraitCollection:(UITraitCollection *)newCollection
withTransitionCoordinator:
(id<UIViewControllerTransitionCoordinator>)coordinator
```

Trait Collections

```
@property (nonatomic, readonly) UIUserInterfaceSizeClass horizontalSizeClass;
@property (nonatomic, readonly) UIUserInterfaceSizeClass verticalSizeClass;
@property (nonatomic, readonly) UIUserInterfaceIdiom userInterfaceIdiom;
@property (nonatomic, readonly) CGFloat displayScale;
```

horizontalSizeClass

verticalSizeClass

userInterfaceIdiom

displayScale

Trait Collections

```
@property (nonatomic, readonly) UIUserInterfaceSizeClass horizontalSizeClass;
@property (nonatomic, readonly) UIUserInterfaceSizeClass verticalSizeClass;
@property (nonatomic, readonly) UIUserInterfaceIdiom userInterfaceIdiom;
@property (nonatomic, readonly) CGFloat displayScale;
```

horizontalSizeClass	Compact
verticalSizeClass	Regular
userInterfaceIdiom	Phone
displayScale	2.0

```
- (void)willTransitionToTraitCollection:(UITraitCollection *)newCollection
withTransitionCoordinator:
(id<UIViewControllerTransitionCoordinator>)coordinator
```

- (void)willTransitionToTraitCollection:(UITraitCollection *)newCollection withTransitionCoordinator: (id<UIViewControllerTransitionCoordinator>)coordinator
- (void)viewWillTransitionToSize:(CGSize)size withTransitionCoordinator: (id<UIViewControllerTransitionCoordinator>)coordinator

- (void)willTransitionToTraitCollection:(UITraitCollection *)newCollection
 withTransitionCoordinator:
 (id<UIViewControllerTransitionCoordinator>)coordinator
- (void)viewWillTransitionToSize:(CGSize)size withTransitionCoordinator: (id<UIViewControllerTransitionCoordinator>)coordinator
- (void)containerViewWillLayoutSubviews
- (void)viewWillLayoutSubviews

willTransitionToTraitCollection

Coarse-grain control

- Coarse-grain control
- Adaptivity

- Coarse-grain control
- Adaptivity
- Screens

- Coarse-grain control
- Adaptivity
- Screens
- Auto-hiding status bar

viewWillTransitionToSize

Medium-grain control

- Medium-grain control
- Child controller size requests

- Medium-grain control
- Child controller size requests
- Rotation

- Medium-grain control
- Child controller size requests
- Rotation
- Resizable simulator

containerViewWillLayoutSubviews and viewWillLayoutSubviews

containerViewWillLayoutSubviews and viewWillLayoutSubviews

Fine-grain control

containerViewWillLayoutSubviews and viewWillLayoutSubviews

- Fine-grain control
- Resize subviews

containerViewWillLayoutSubviews and viewWillLayoutSubviews

- Fine-grain control
- Resize subviews
- Child container views

Demo

Adaptivity and multiple presentation controllers

```
transitionDelegate = [[OverlayTransitioningDelegate alloc] init];
[overlayViewController setTransitioningDelegate:transitionDelegate];
```

```
if([self presentationShouldBeAwesome])
{
    transitioningDelegate = [[CoolTransitioningDelegate alloc] init];
}
else
{
    transitioningDelegate = [[OverlayTransitioningDelegate alloc] init];
}
[overlay setTransitioningDelegate:transitioningDelegate];
```

```
if([self presentationShouldBeAwesome])
{
    transitioningDelegate = [[CoolTransitioningDelegate alloc] init];
}
else
{
    transitioningDelegate = [[OverlayTransitioningDelegate alloc] init];
}
[overlay setTransitioningDelegate:transitioningDelegate];
```

```
if([self presentationShouldBeAwesome])
{
    transitioningDelegate = [[CoolTransitioningDelegate alloc] init];
}
else
{
    transitioningDelegate = [[OverlayTransitioningDelegate alloc] init];
}
[overlay setTransitioningDelegate:transitioningDelegate];
```

Improved API through UIAlertController and UISearchController

Improved API through UIAlertController and UISearchController Presentations are now in your hands

Improved API through UIAlertController and UISearchController Presentations are now in your hands

Go make your own Cool Mode!

More Information

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App Frameworks Evangelist
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Documentation
View Controllers and Presentation Controllers
http://developer.apple.com

Apple Developer Forums http://devforums.apple.com

Related Sessions

 View Controller Advancements in iOS 8 	Mission	Wednesday 9:00AM
 Building Adaptive Apps with UlKit 	Mission	Wednesday 10:15AM
 What's New in Interface Builder 	Mission	Wednesday 3:15PM
 Core iOS Application Architectural Patterns 	Mission	Thursday 9:00AM

Labs

Cocoa Touch Lab

Frameworks Lab A Thursday 2:00PM

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