

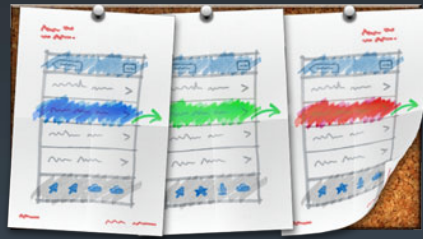
# Adopting Storyboards in Your App

Session 407

**Joshua Pennington**

Interface Builder

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



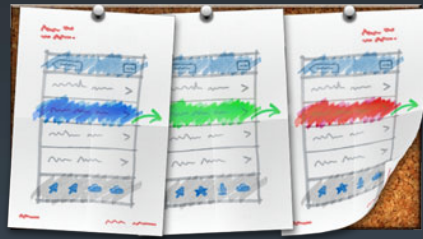
Intro to Storyboards



Mixing Storyboards  
with code/XIBs



New in iOS 6



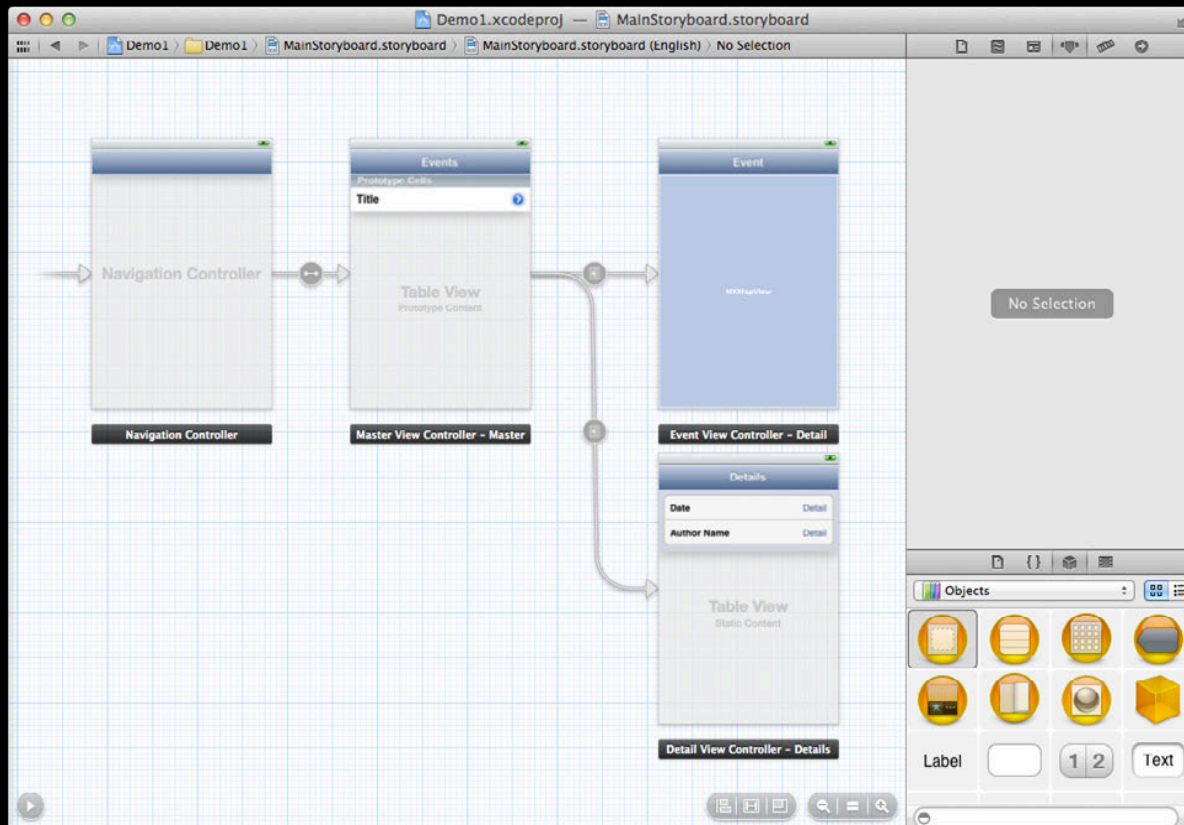
Intro to Storyboards

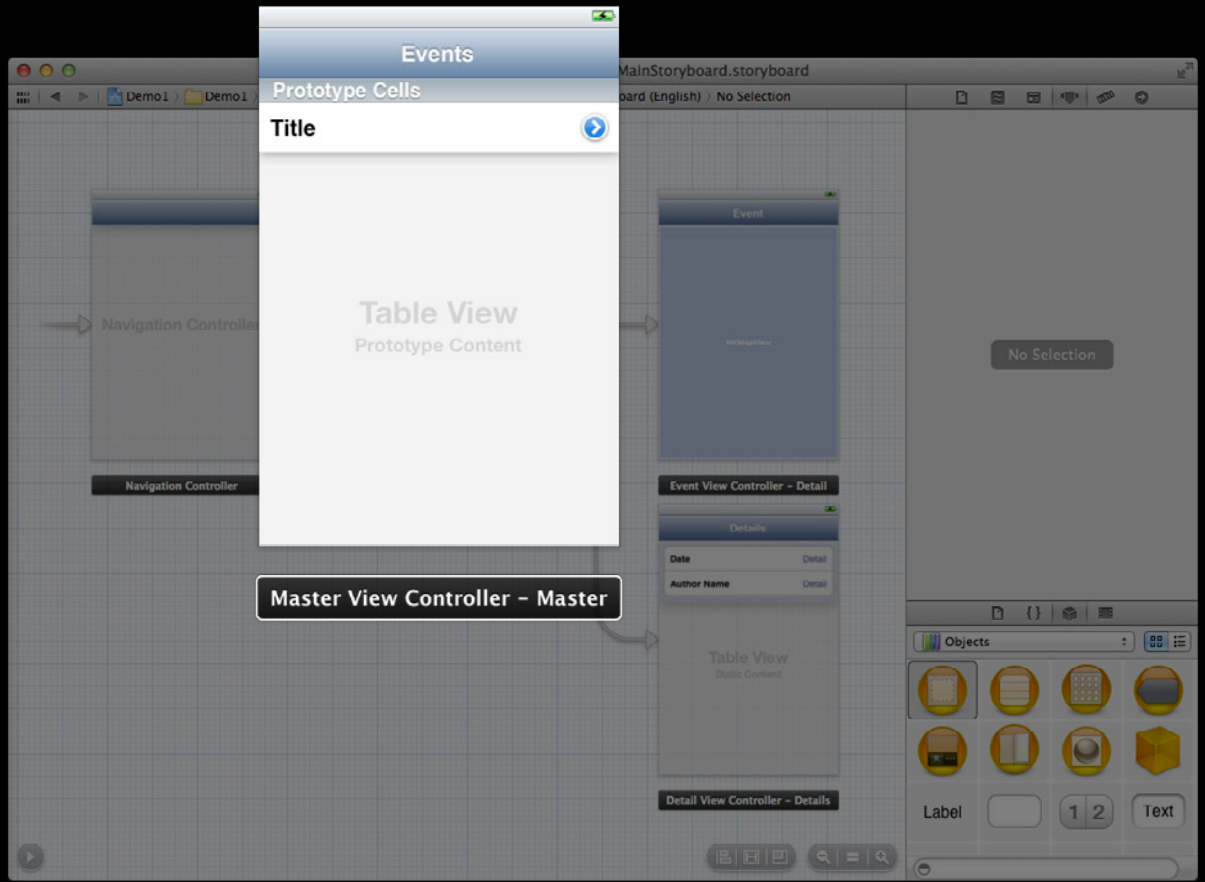


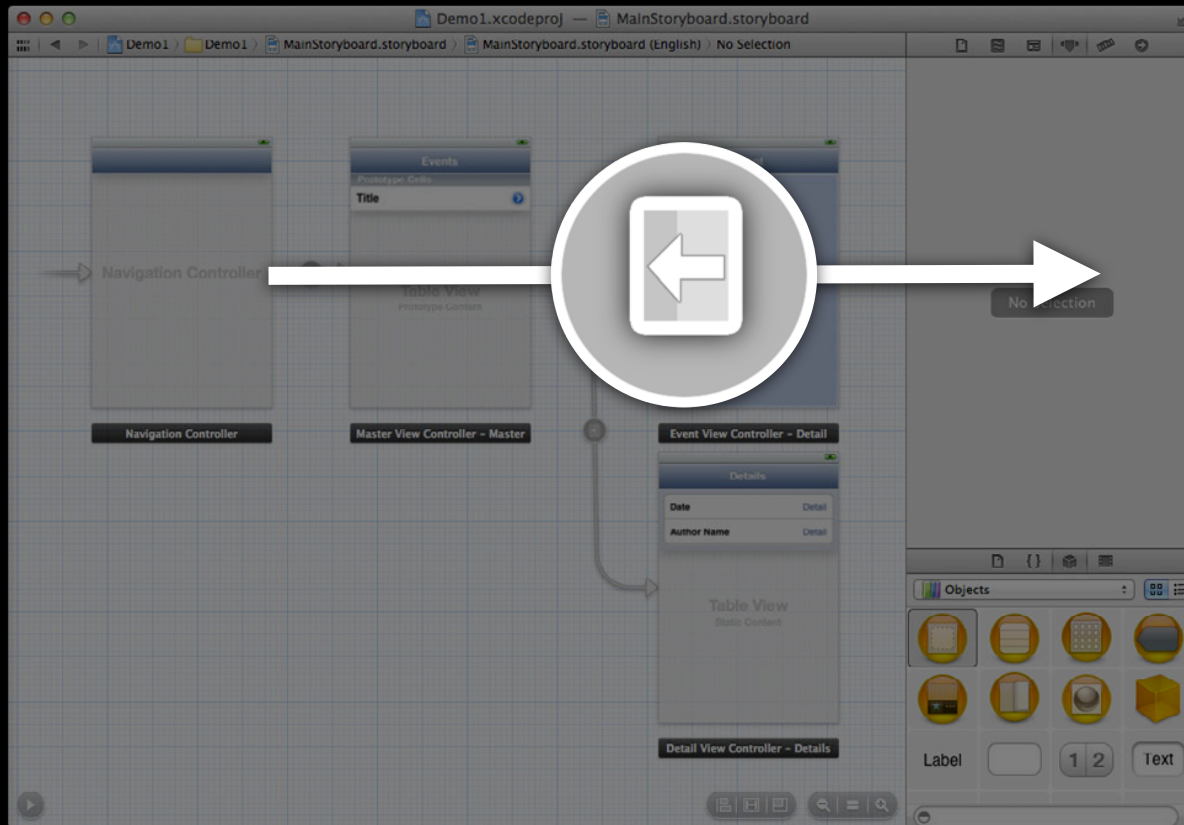
Mixing Storyboards  
with code/XIBs



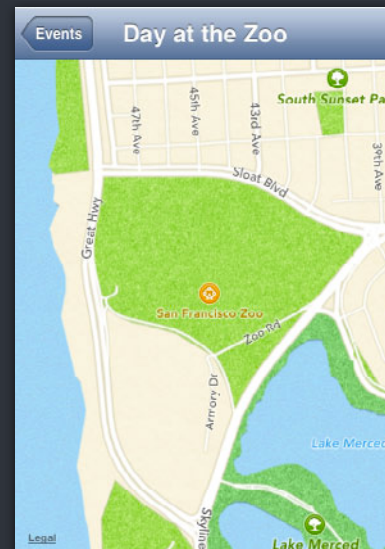
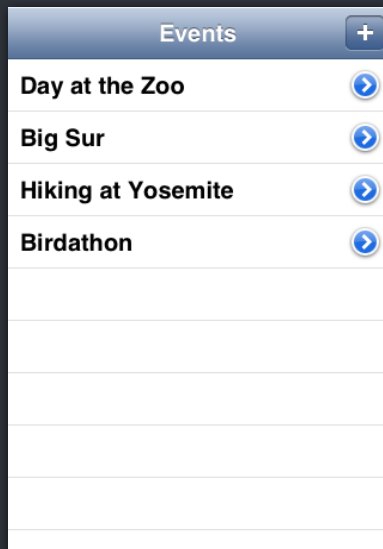
New in iOS 6





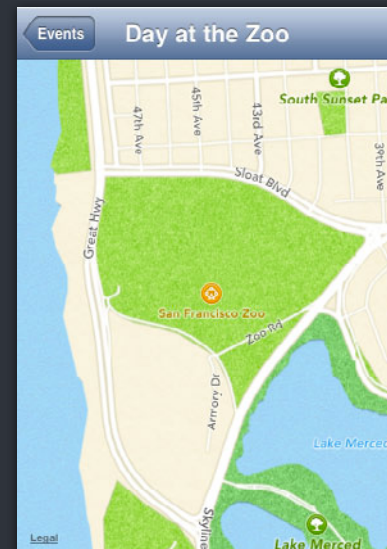
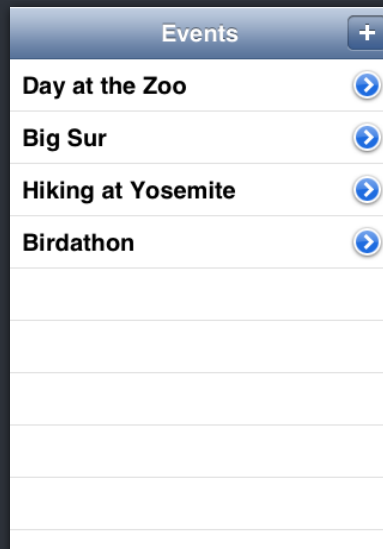


# Passing Data



# Passing Data

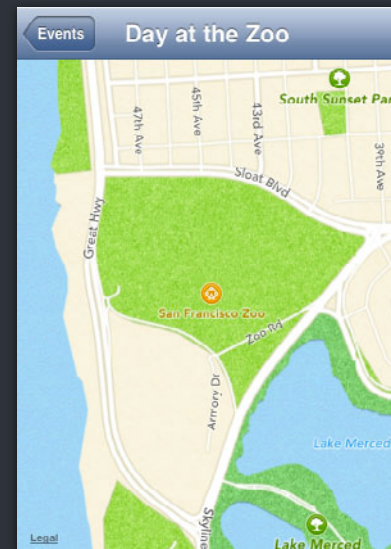
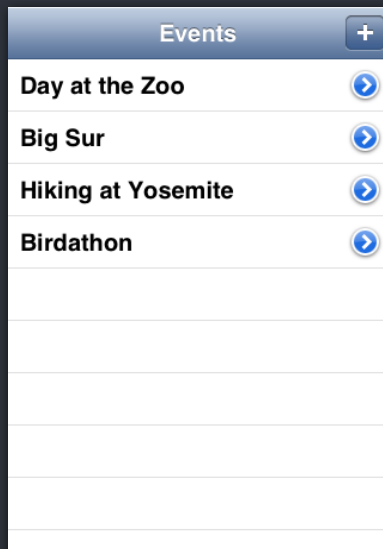
-prepareForSegue:sender:





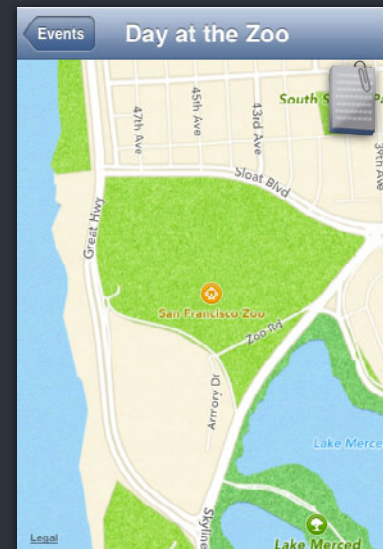
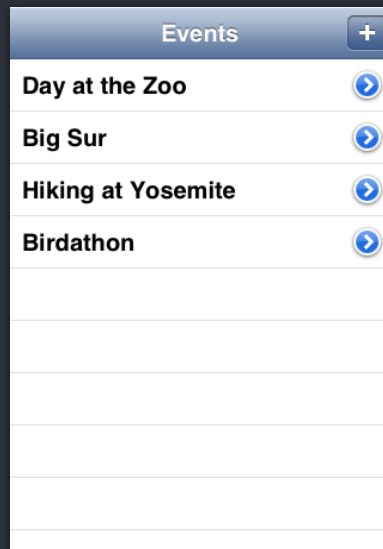
# Passing Data

-prepareForSegue:sender:



# Passing Data

-prepareForSegue:sender:



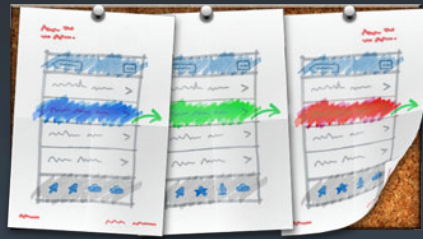
*Demo*

Storyboards

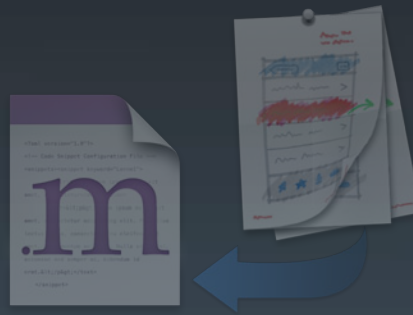
# Storyboards

## Recap

- Two main concepts: Scenes and Segues
  - prepareForSegue:sender:



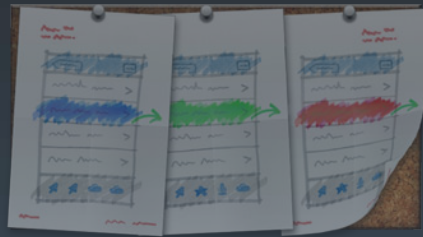
Intro to Storyboards



Mixing Storyboards  
with code/XIBs



New in iOS 6



Intro to Storyboards



Mixing Storyboards  
with code/XIBs



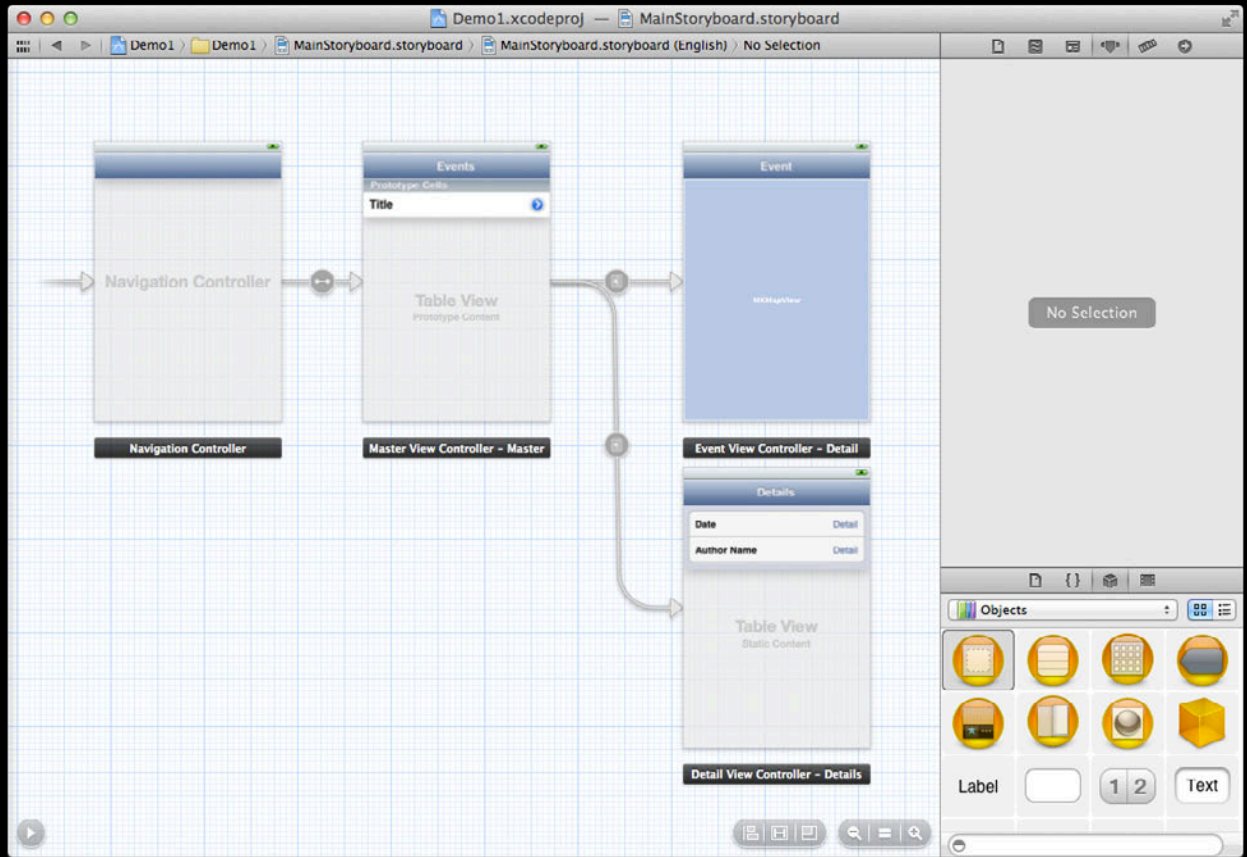
New in iOS 6

# Adopting Storyboards in Your App

Mixing Storyboards with code/XIBs

**Tony Ricciardi**

Interface Builder





# Storyboards and Code

- Integrating with code-based views
- Customizing transitions



Carrier

2:55 PM



# Inventory

## Weapons



## Armor



## Potions



## Books



Game

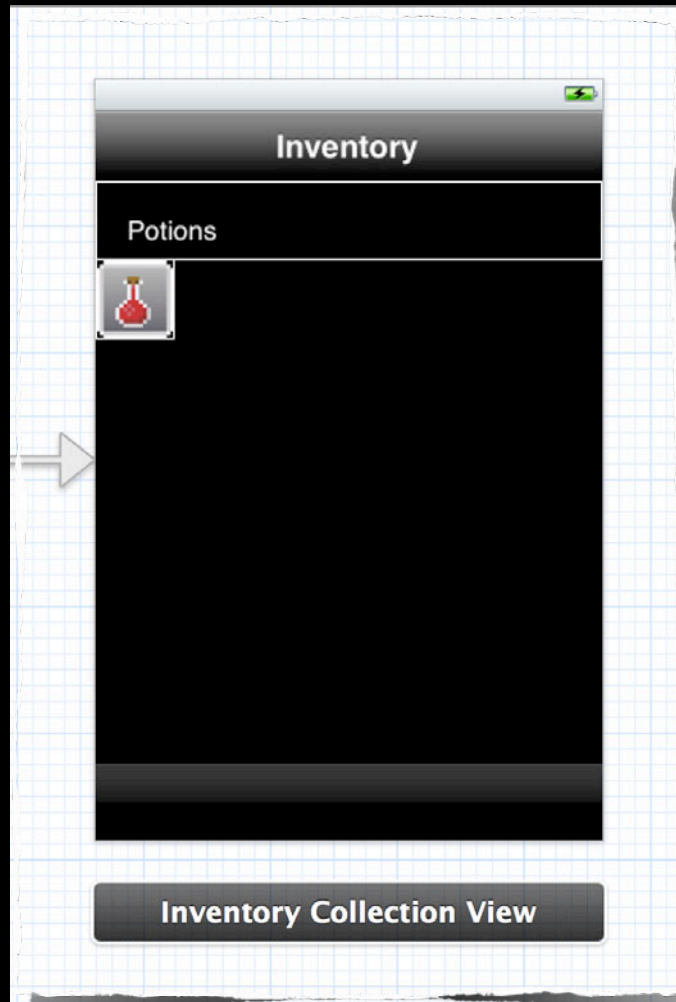


Map



Inventory





# Storyboards and Code

## UIStoryboard.h

`+storyboardWithName:bundle:`

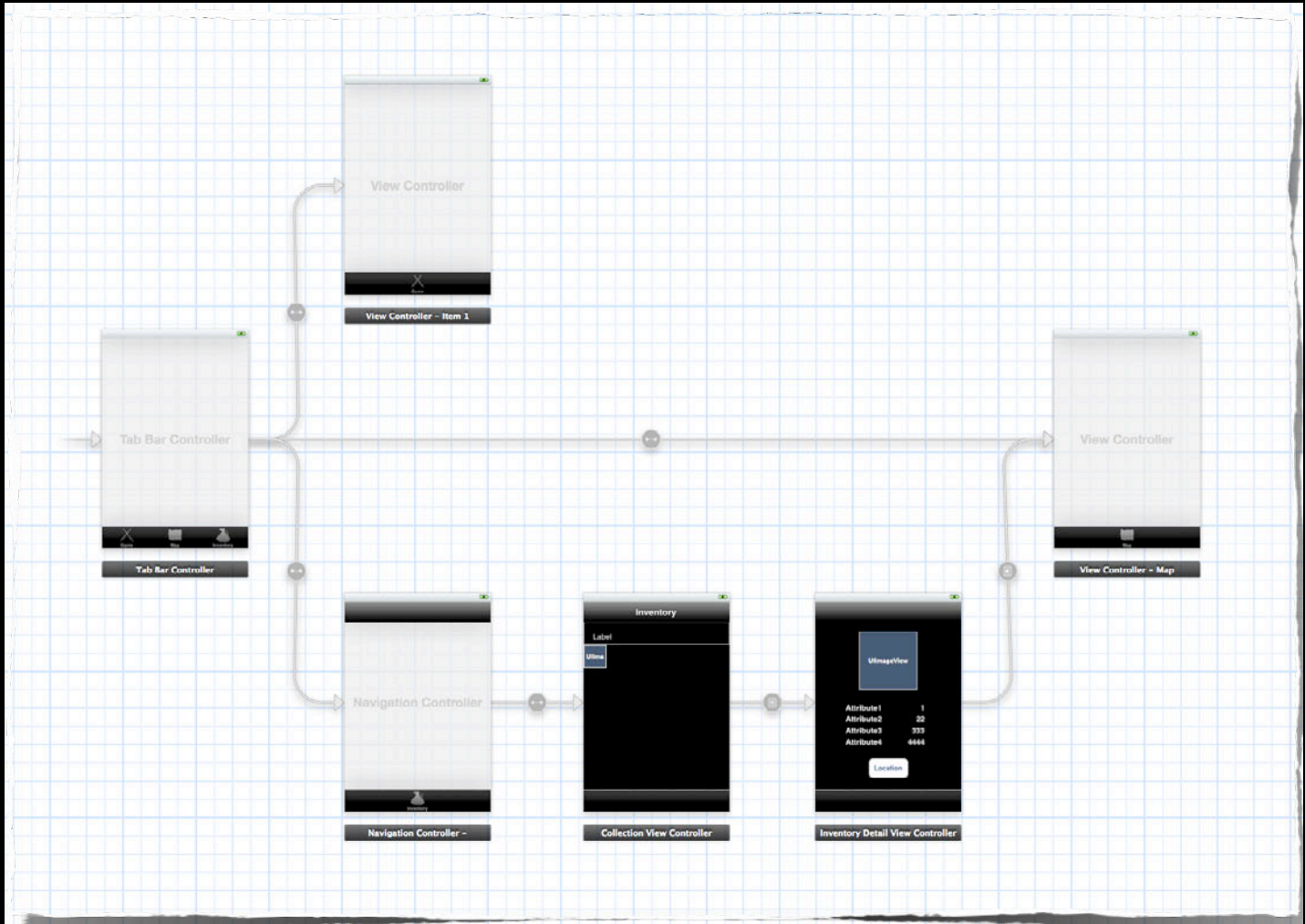
- Returns a new instance of UIStoryboard

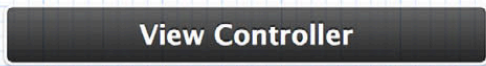
`-instantiateInitialViewController`

- Returns a copy of the storyboard's initial view controller

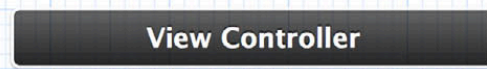
# *Demo*

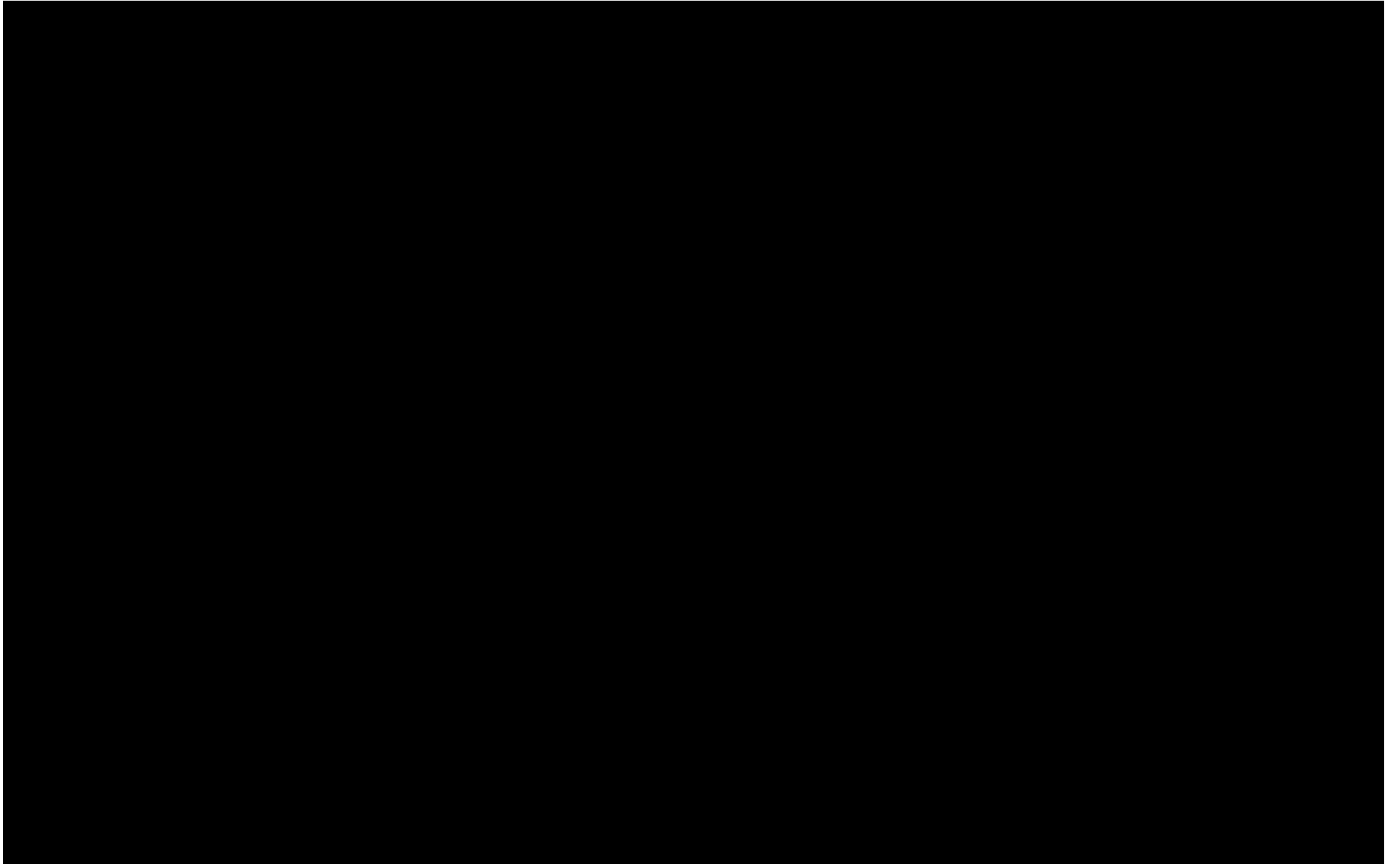
Integrating Storyboards with code-based views











`-performSegueWithIdentifier:sender:`

`UIViewController`

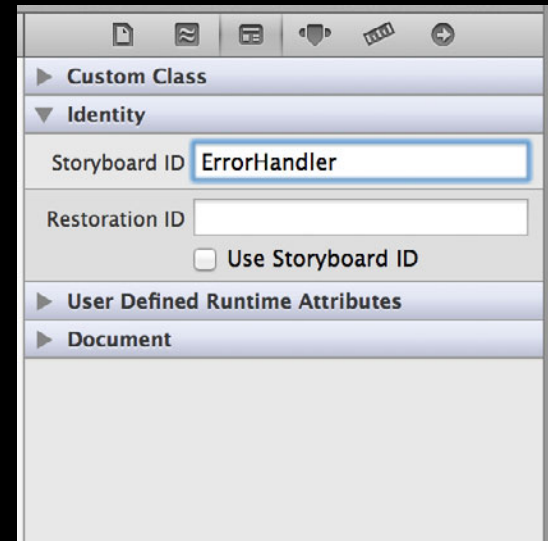
There was an error  
communicating  
with the server.

OK



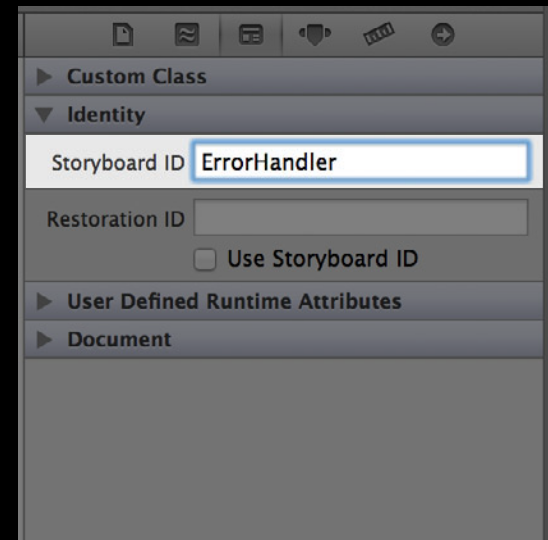
There was an error  
communicating  
with the server.

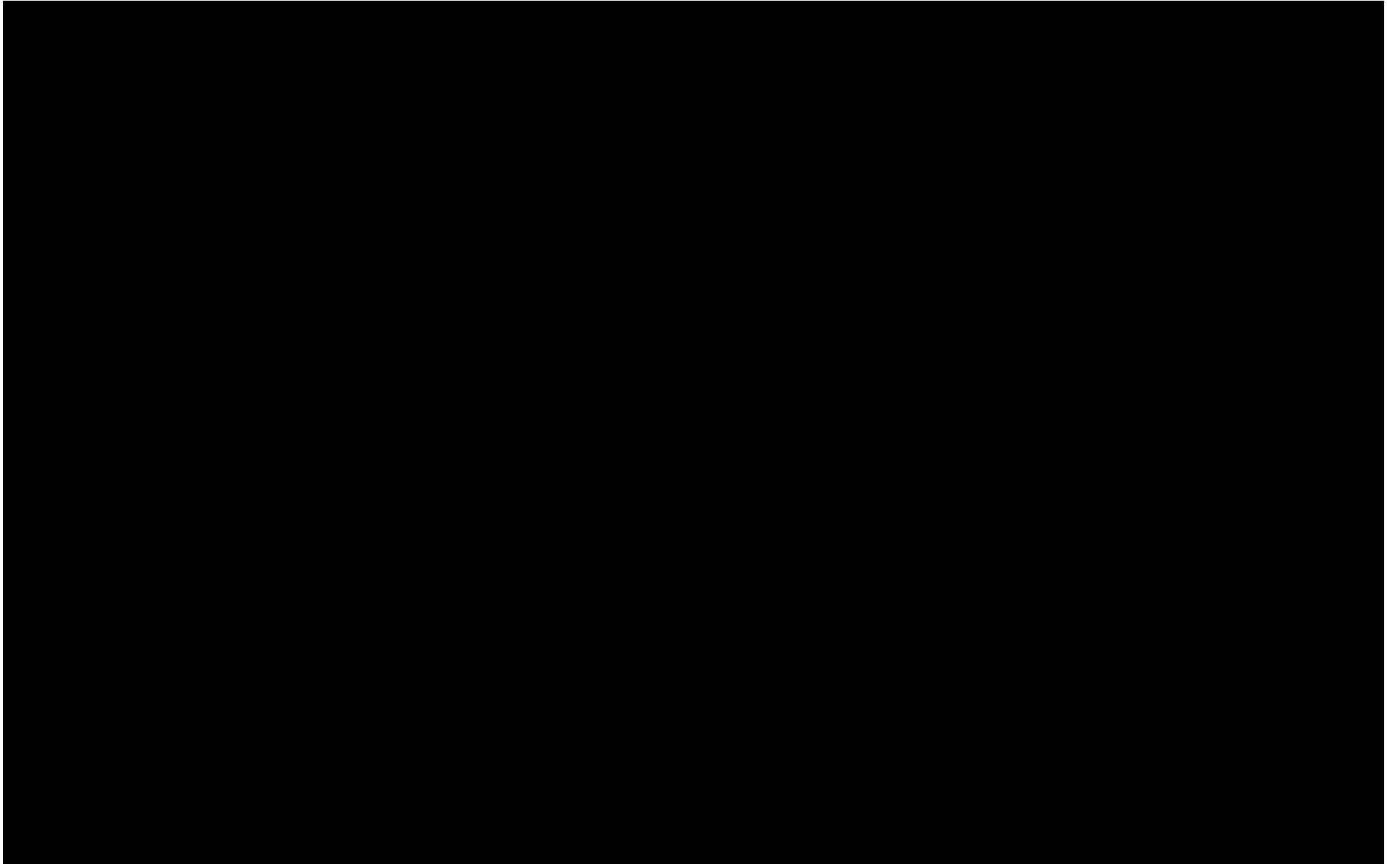
OK



There was an error  
communicating  
with the server.

OK





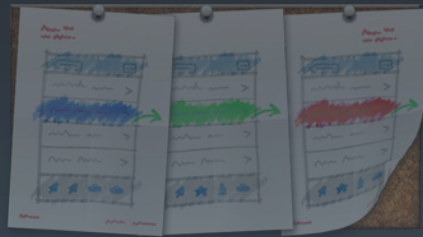
```
-instantiateViewControllerWithIdentifier:  
    UIStoryboard
```



# Storyboards and Code

## Recap

- Storyboards in code
- Code-based views in Storyboards
- Manual Segue triggers
- Scenes without Segues



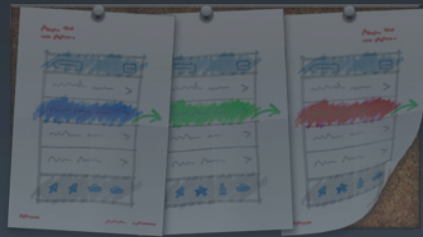
Intro to Storyboards



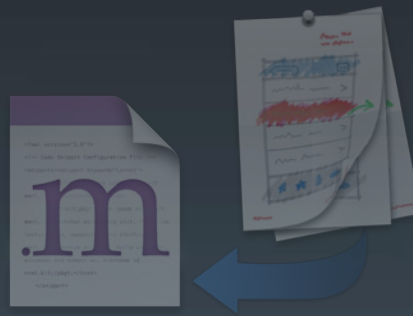
Mixing Storyboards  
with code/XIBs



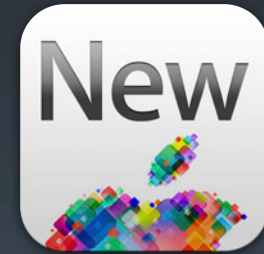
New in iOS 6



Intro to Storyboards



Mixing Storyboards  
with code/XIBs



New in iOS 6

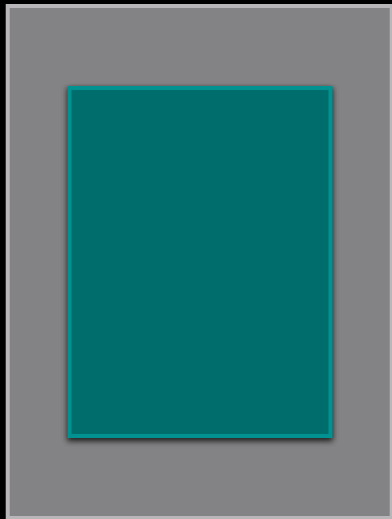
# New Ways to Use Storyboards

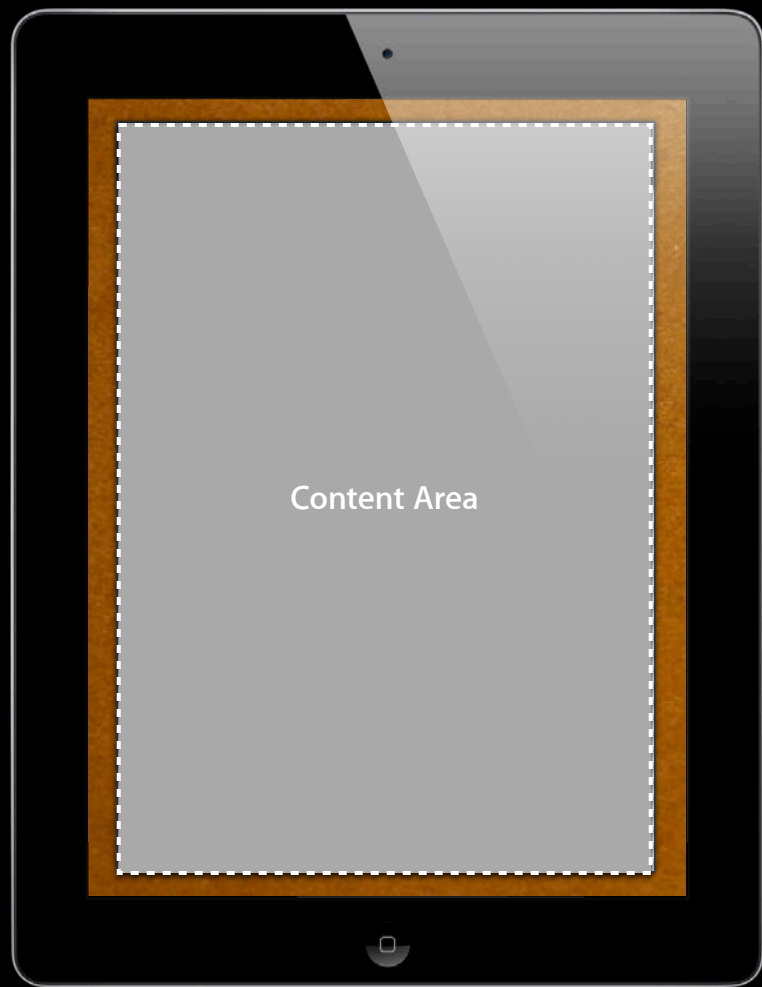
Embed Segues



# New Ways to Use Storyboards

## Embed Segues





Content Area



# How It Works Today



View Controller

View Controller



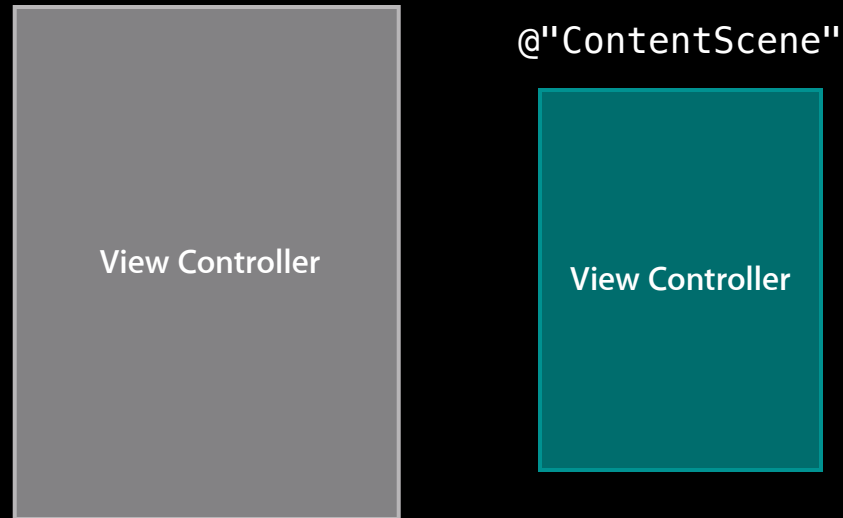
# How It Works Today



@"ContentScene"



# How It Works Today



```
UIViewController *child =  
    [[self storyboard] instantiateViewControllerWithIdentifier:@"ContentScene"];  
[self addChildViewController:child];  
[[self view] addSubview:[child view]];  
[[child view] setFrame:frame];
```

# How It Works Today

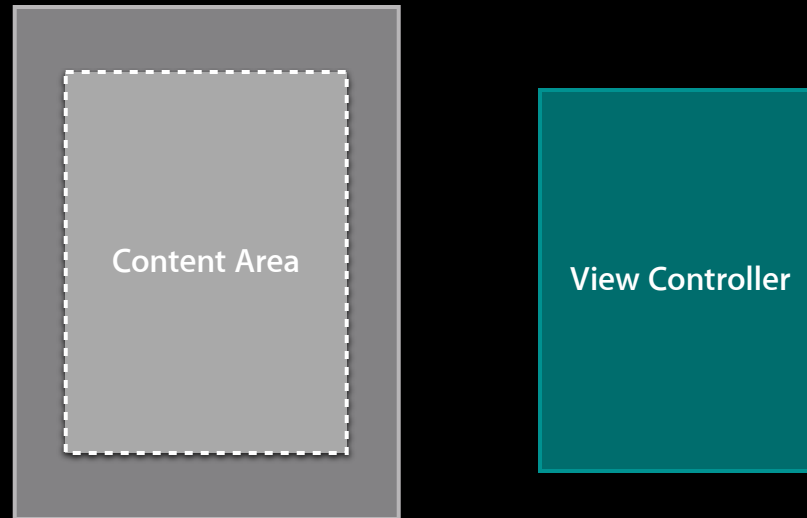


```
UIViewController *child =  
    [[self storyboard] instantiateViewControllerWithIdentifier:@"ContentScene"];  
[self addChildViewController:child];  
[[self view] addSubview:[child view]];  
[[child view] setFrame:frame];
```

# Embed Segues



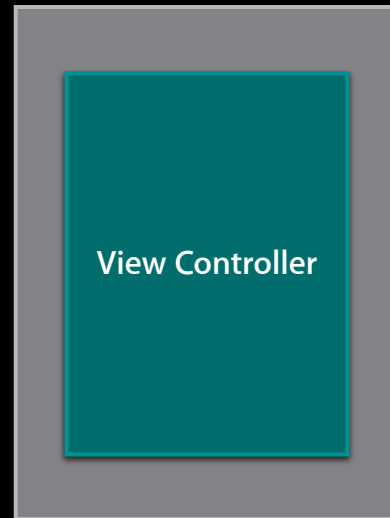
# Embed Segues



# Embed Segues



# Embed Segues



There is no code.

*Demo*

Embed Segues



# Embed Segues

## Recap

- Add a container view
- Create a segue from the container view to the destination scene
- Use `-prepareForSegue:sender:` if needed

# New Ways to Use Storyboards

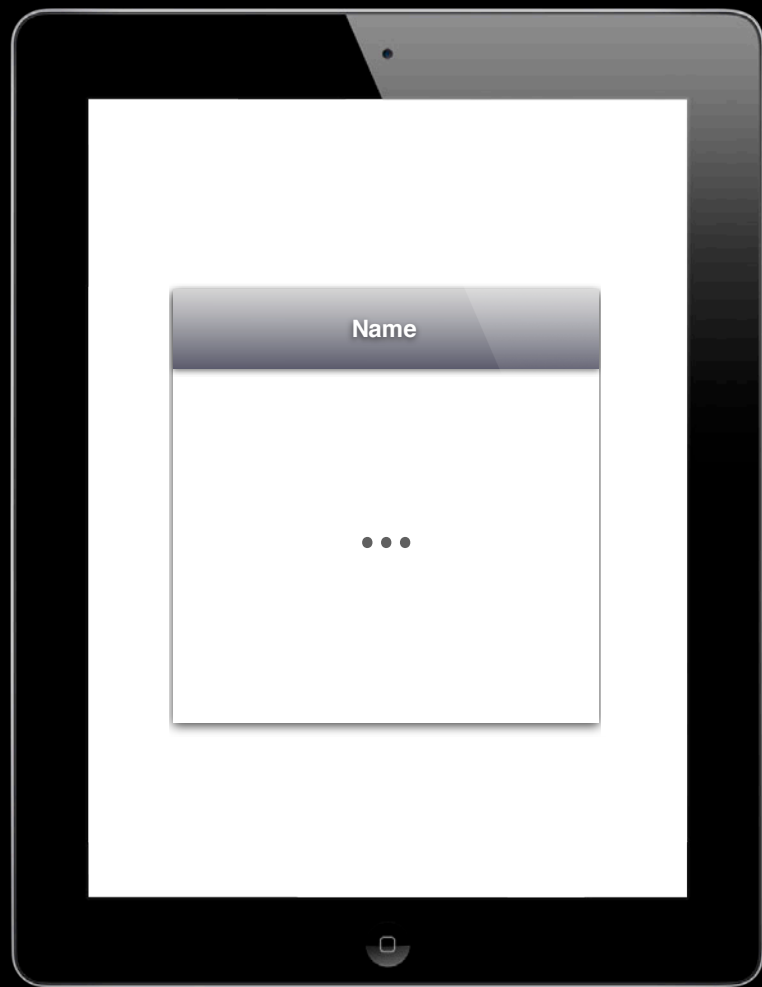
## Unwind Segues

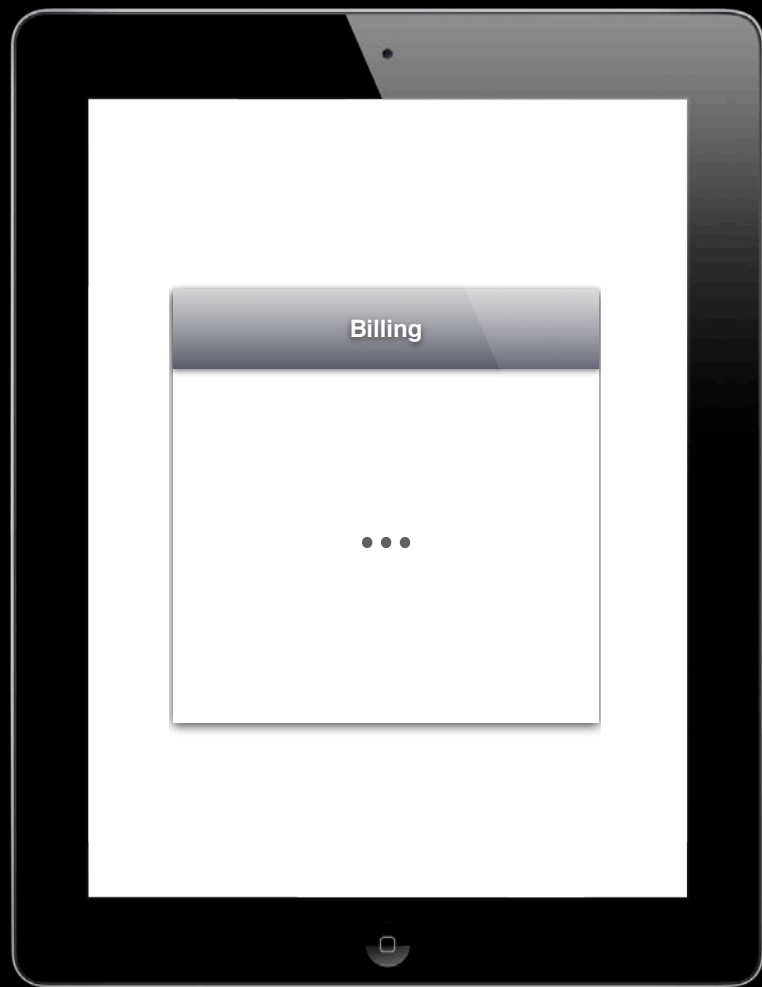
- Segues go to new instances only
- Returning to previous controllers is a manual process

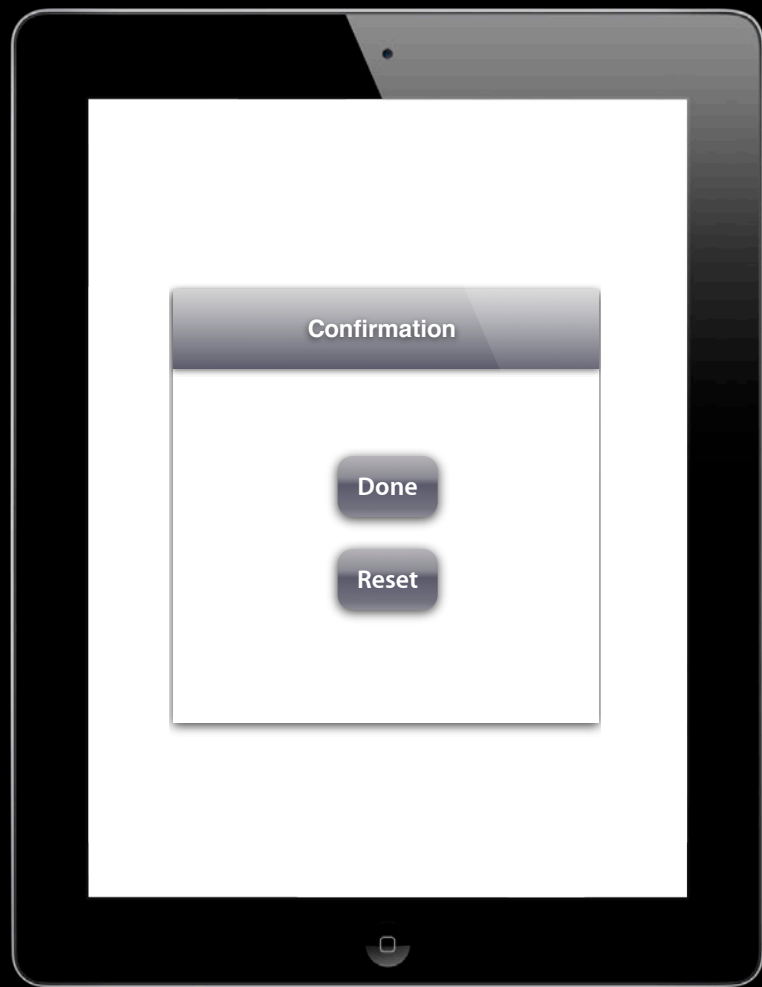
# New Ways to Use Storyboards

## Unwind Segues

- Segues go to new instances only
- Returning to previous controllers is a manual process
  - Define a delegate
  - Use `-prepareForSegue:` to wire up the delegate
  - Invoke the delegate
  - Return any data; trigger navigation

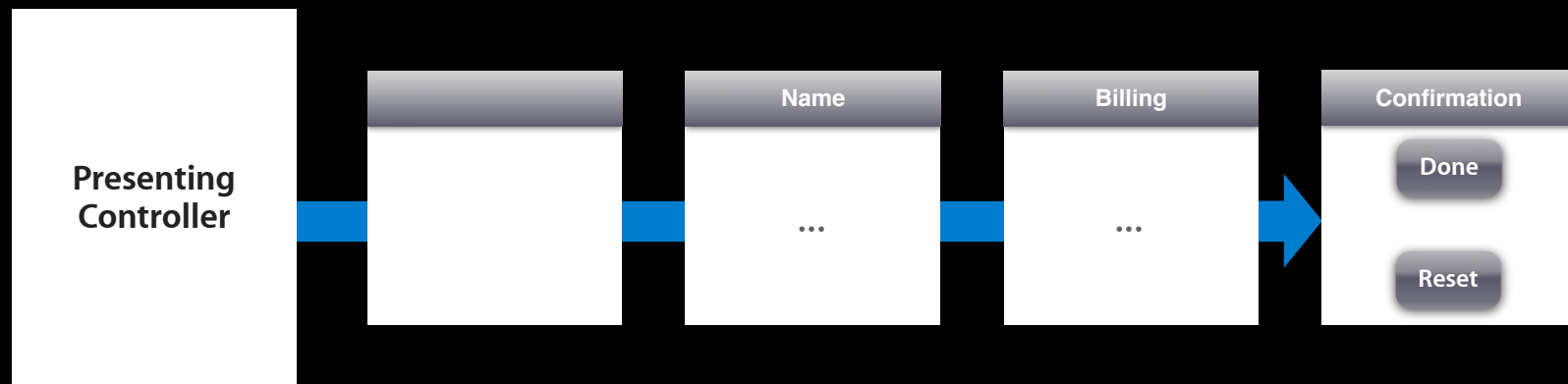






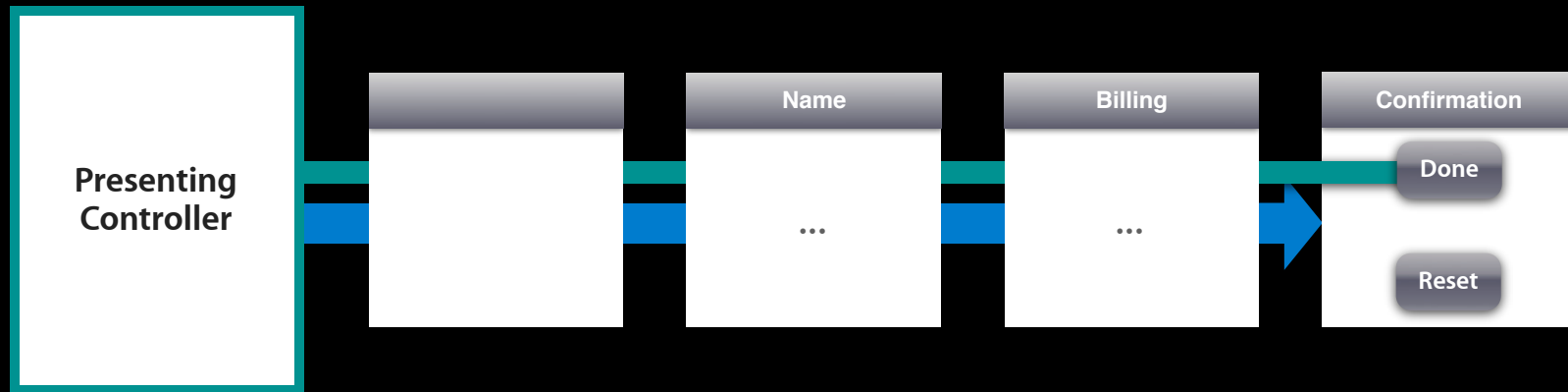
# New Ways to Use Storyboards

## Unwind Segues



# New Ways to Use Storyboards

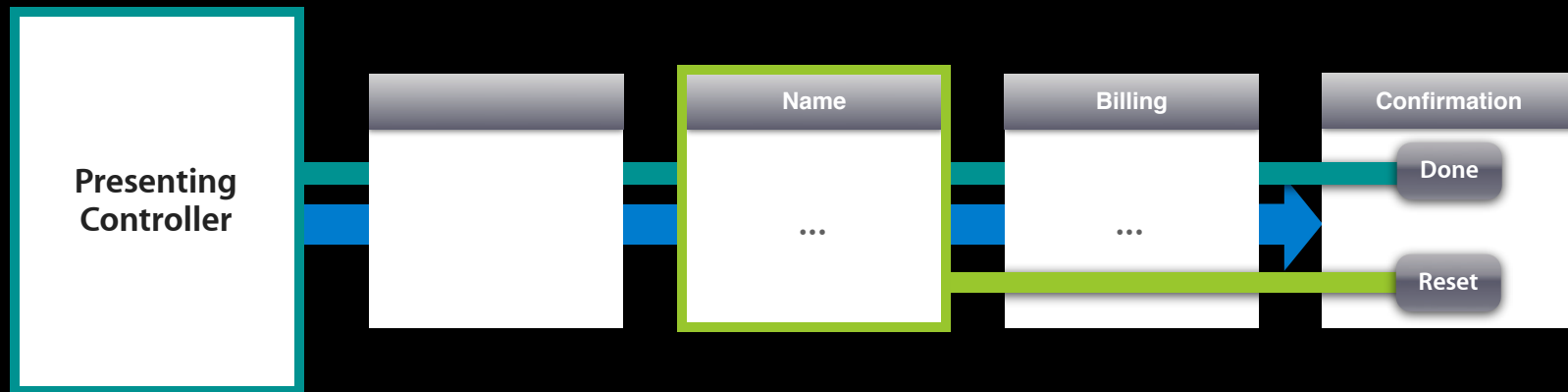
## Unwind Segues





# New Ways to Use Storyboards

## Unwind Segues



# Unwind Segues

## Picking the destination

- View controllers created in code/XIBs
- Multiple paths back and forth

# Unwind Segues

## Picking the destination

- Resolve destination at runtime

```
- (IBAction)done:(UIStoryboardSegue *)segue {  
    // React to the impending segue  
    // Pull state back, etc.  
}
```

# Unwind Segues

## Picking the destination

- Resolve destination at runtime

```
- (IBAction)done:(UIStoryboardSegue *)segue {  
    // React to the impending segue  
    // Pull state back, etc.  
}
```

# Unwind Segues

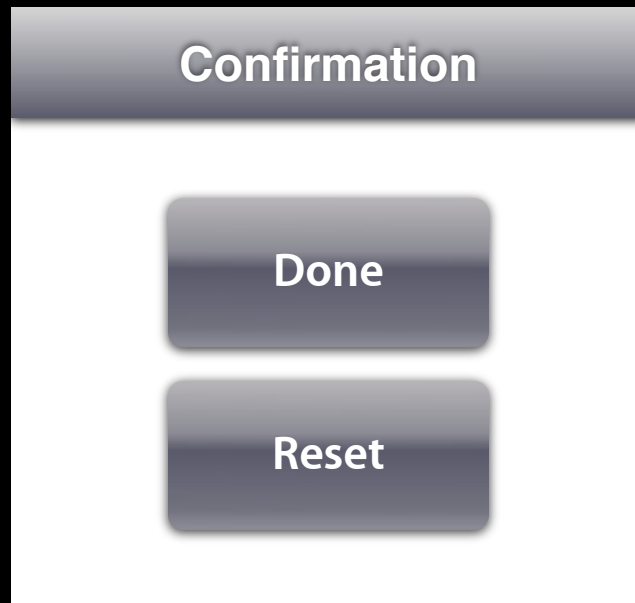
## Picking the destination

- Resolve destination at runtime

```
- (IBAction)done:(UIStoryboardSegue *)segue {  
    // React to the impending segue  
    // Pull state back, etc.  
}
```

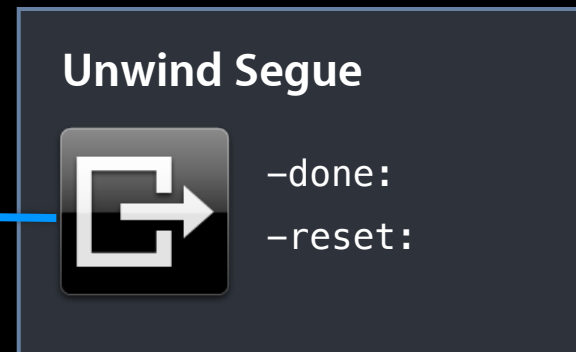
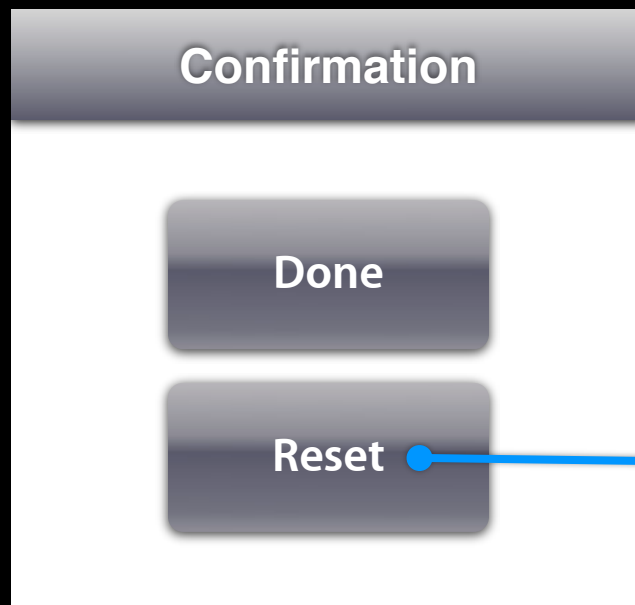
# Unwind Segues

Picking the destination



# Unwind Segues

## Picking the destination



# Unwind Segues

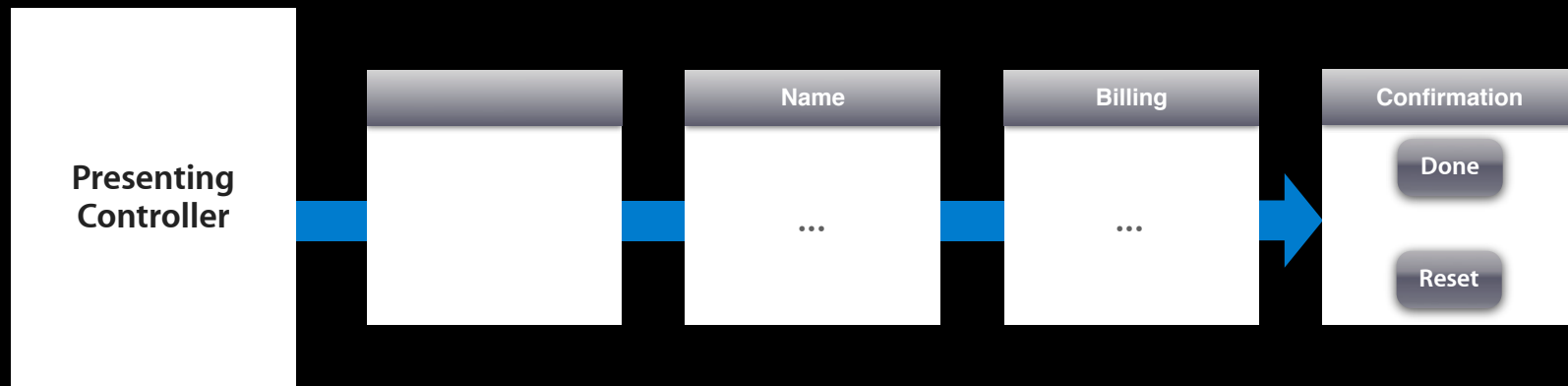
## Callback order

- Find the destination
- Invoke `-prepareForSegue:sender:` on the source
- Run the unwind action
- Perform the segue



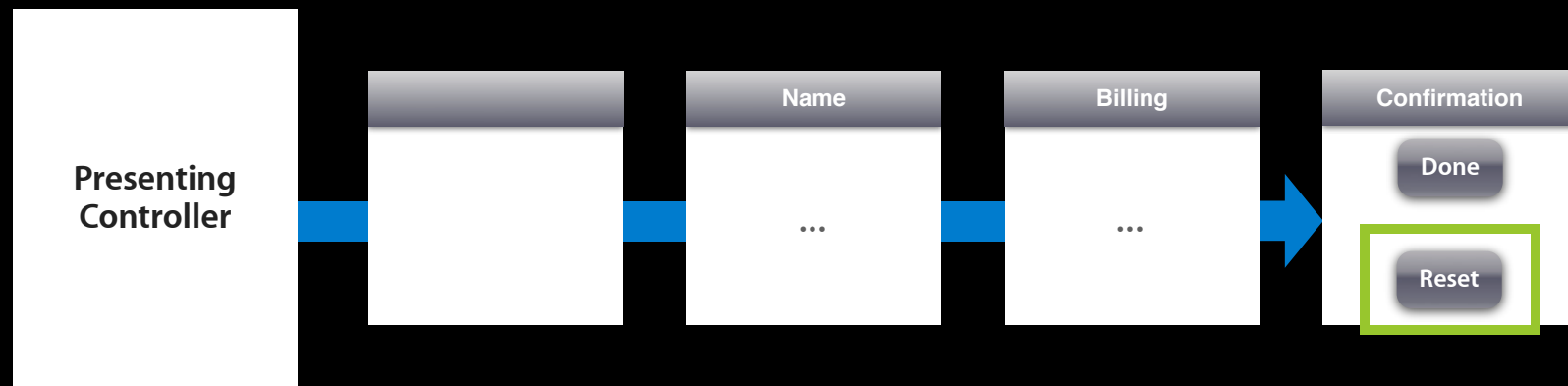
# Unwind Segues

Runtime searching



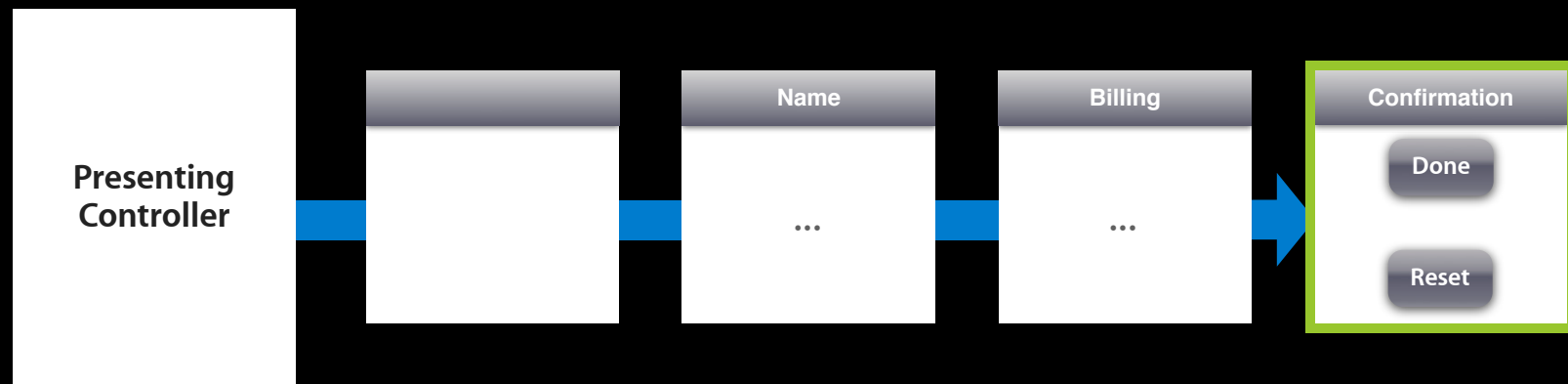
# Unwind Segues

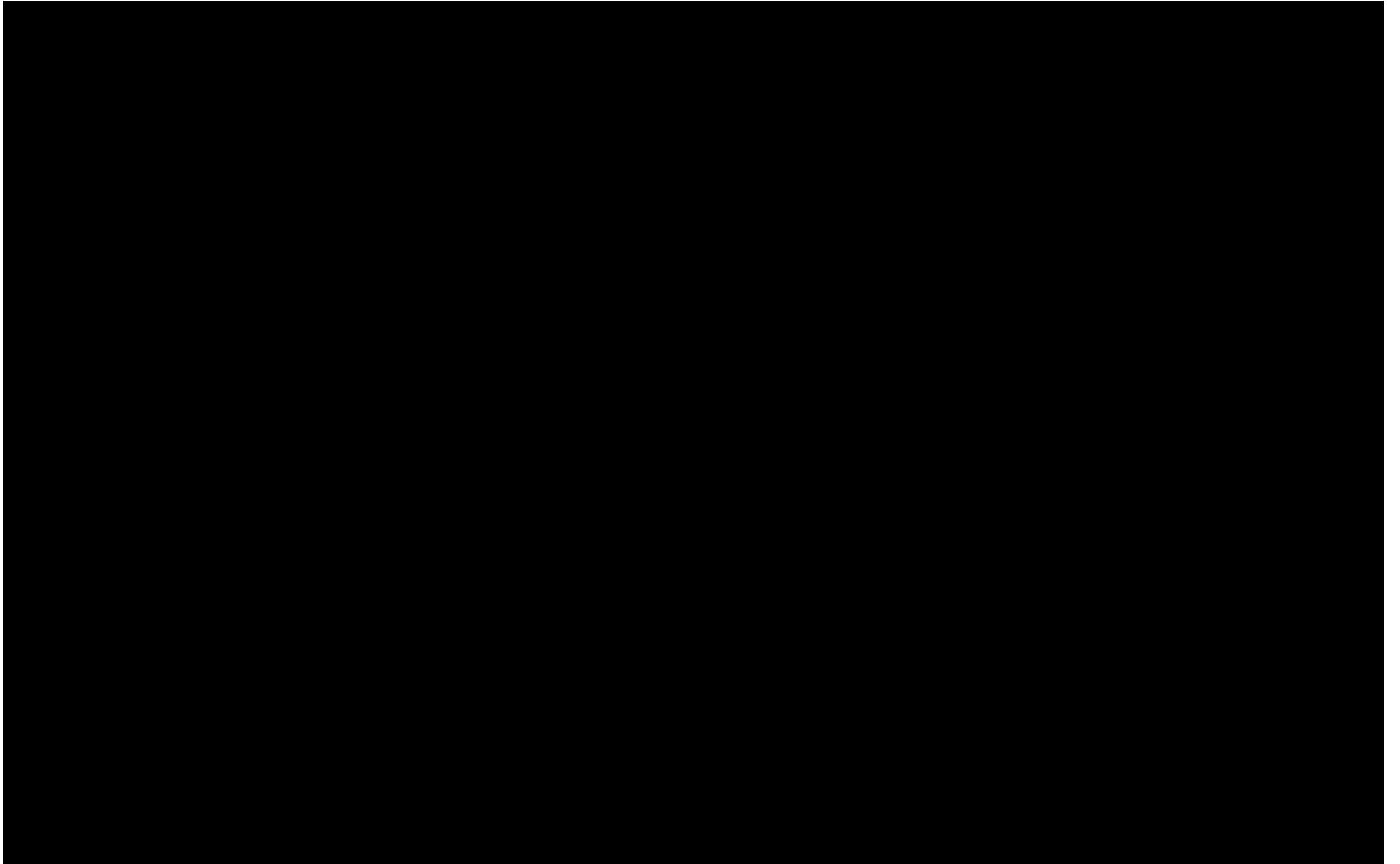
Runtime searching



# Unwind Segues

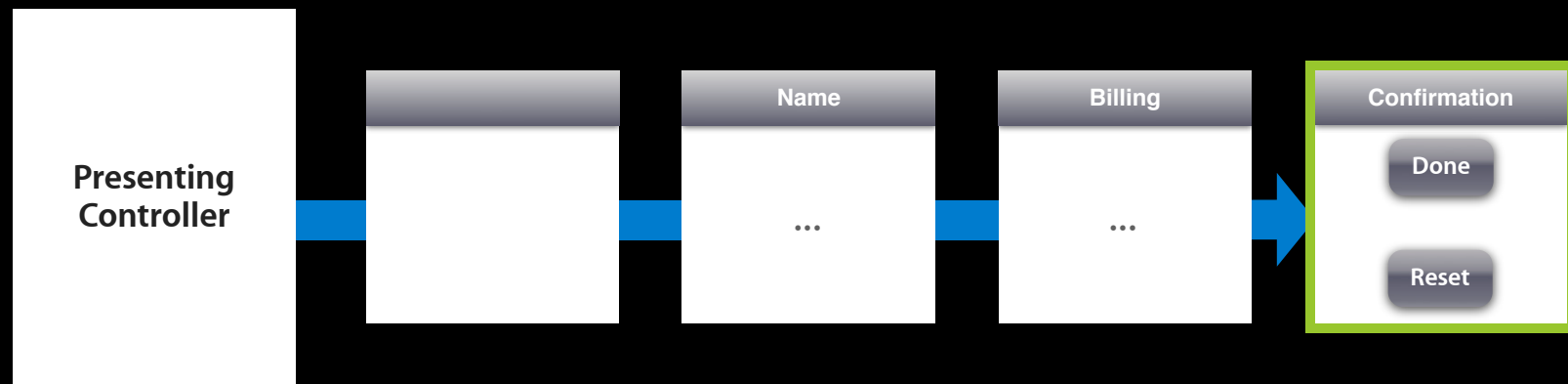
Runtime searching



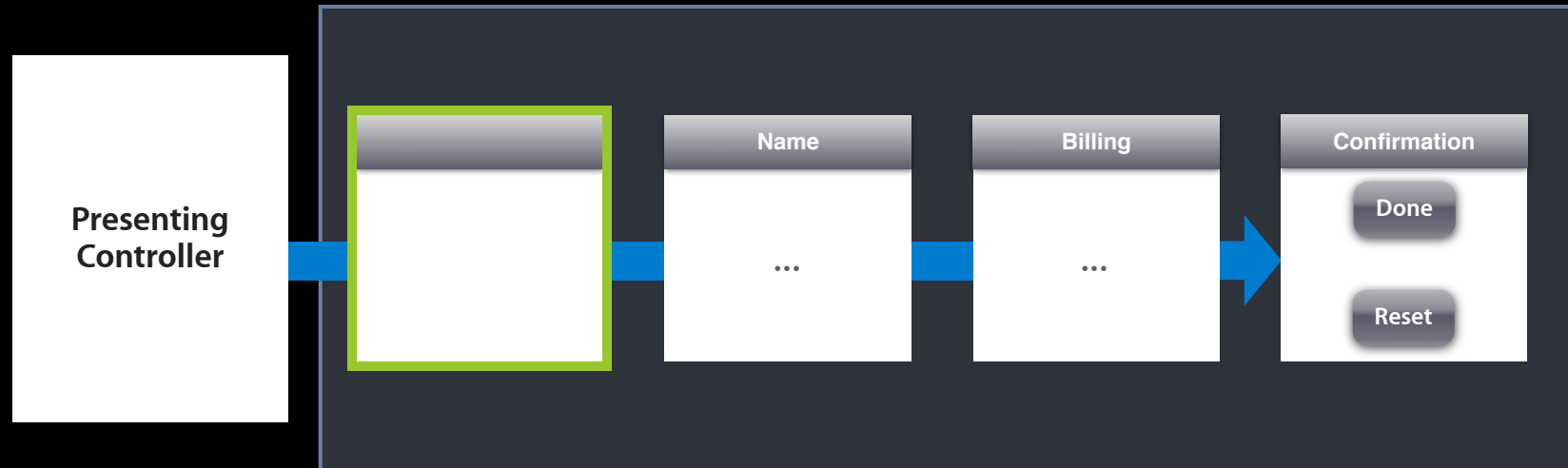


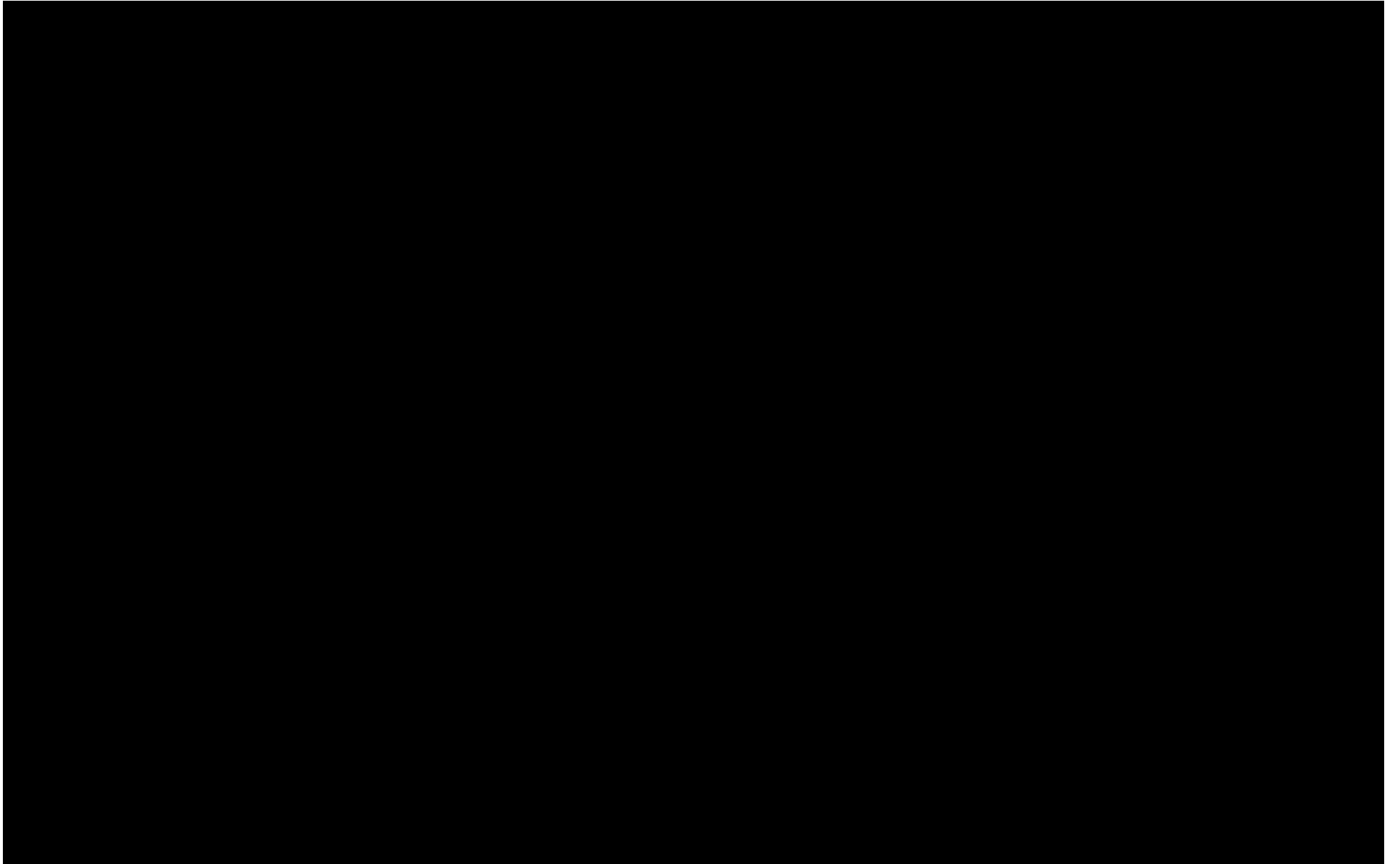
```
-canPerformUnwindSegueAction:  
  fromViewController:sender:
```

# Unwind Segues



# Unwind Segues





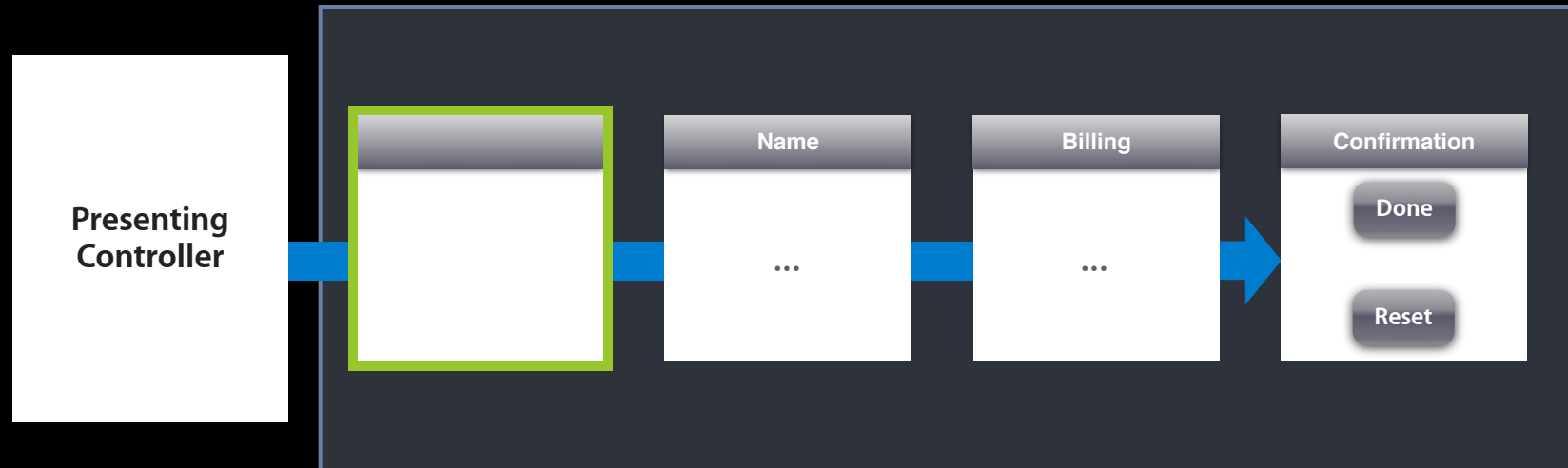


```
-viewControllerForUnwindSegueAction:  
  fromViewController:withSender:
```

For custom containers

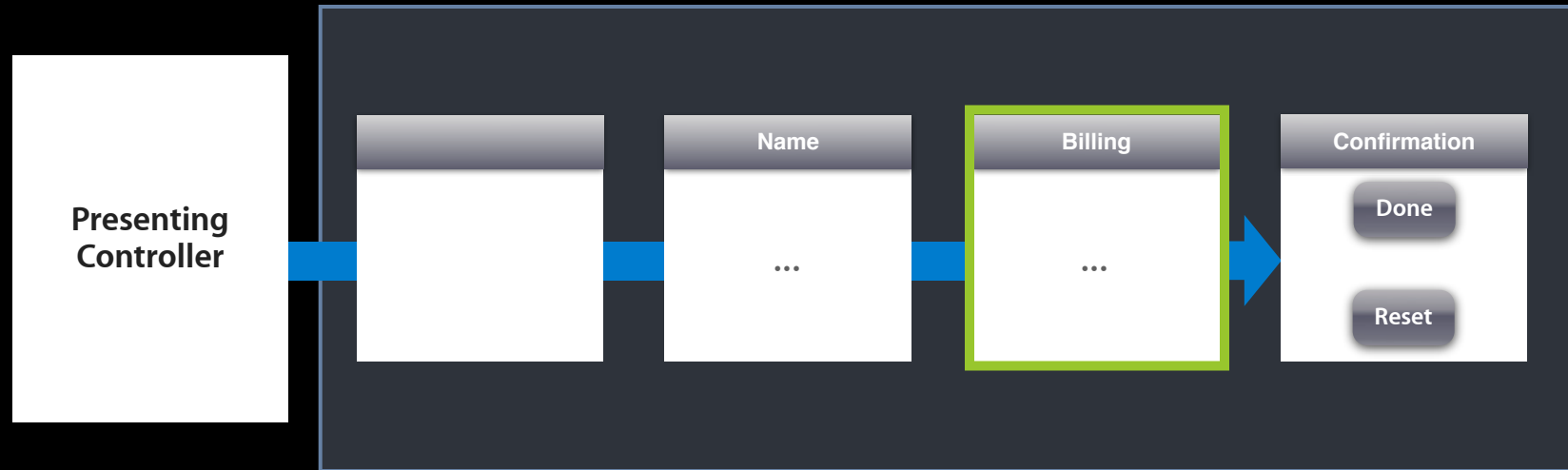
# Unwind Segues

Runtime searching



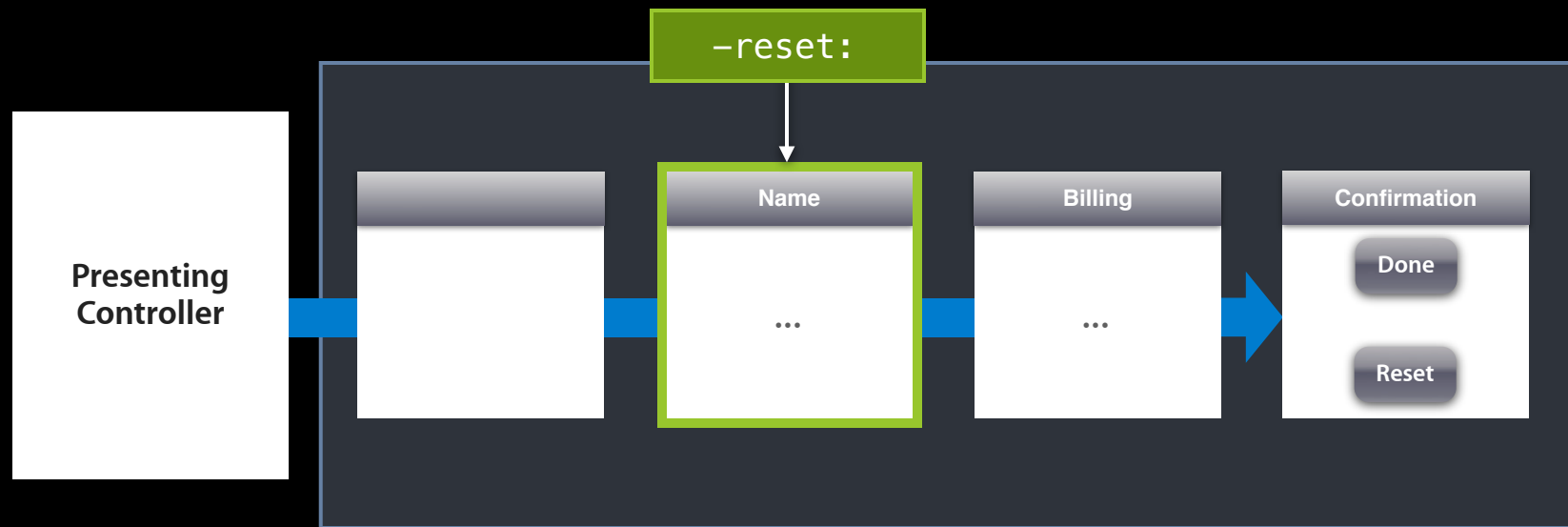
# Unwind Segues

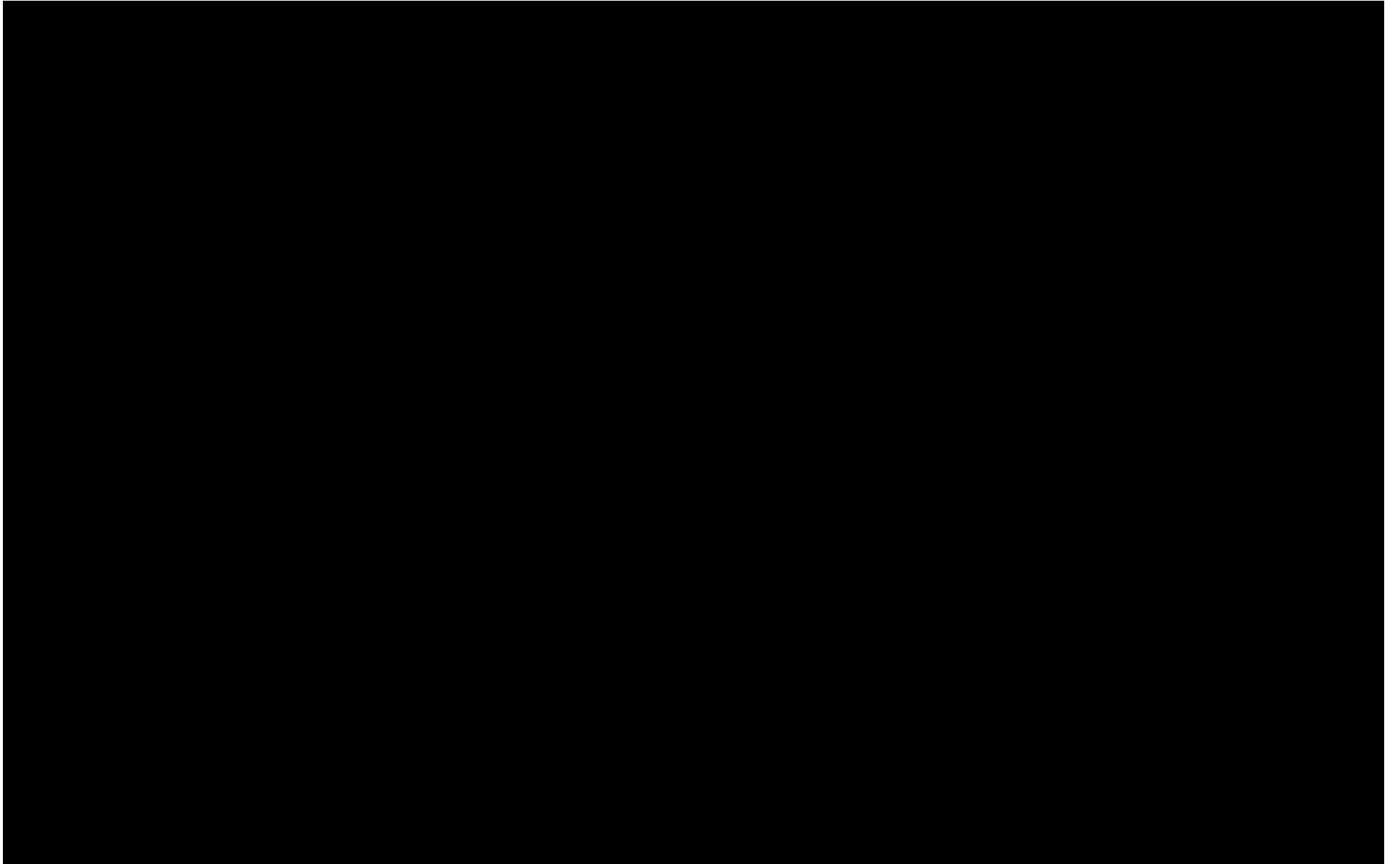
Runtime searching



# Unwind Segues

Runtime searching



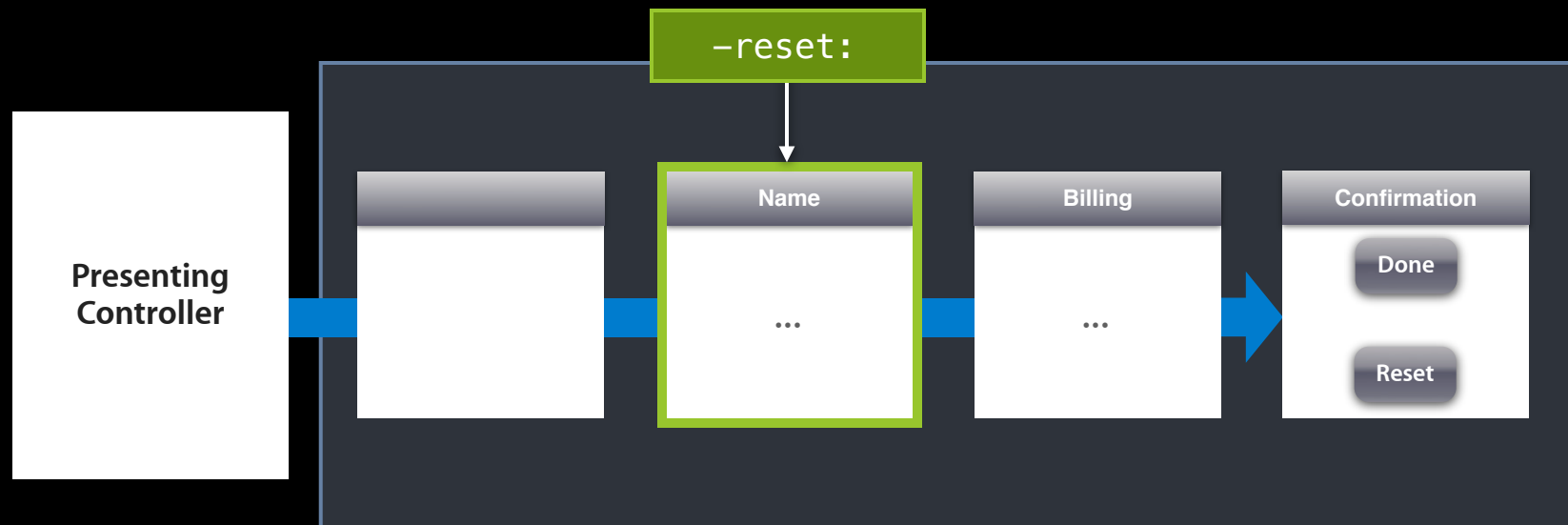


```
-segueForUnwindingToViewController:  
  fromViewController:sender:
```

For custom containers

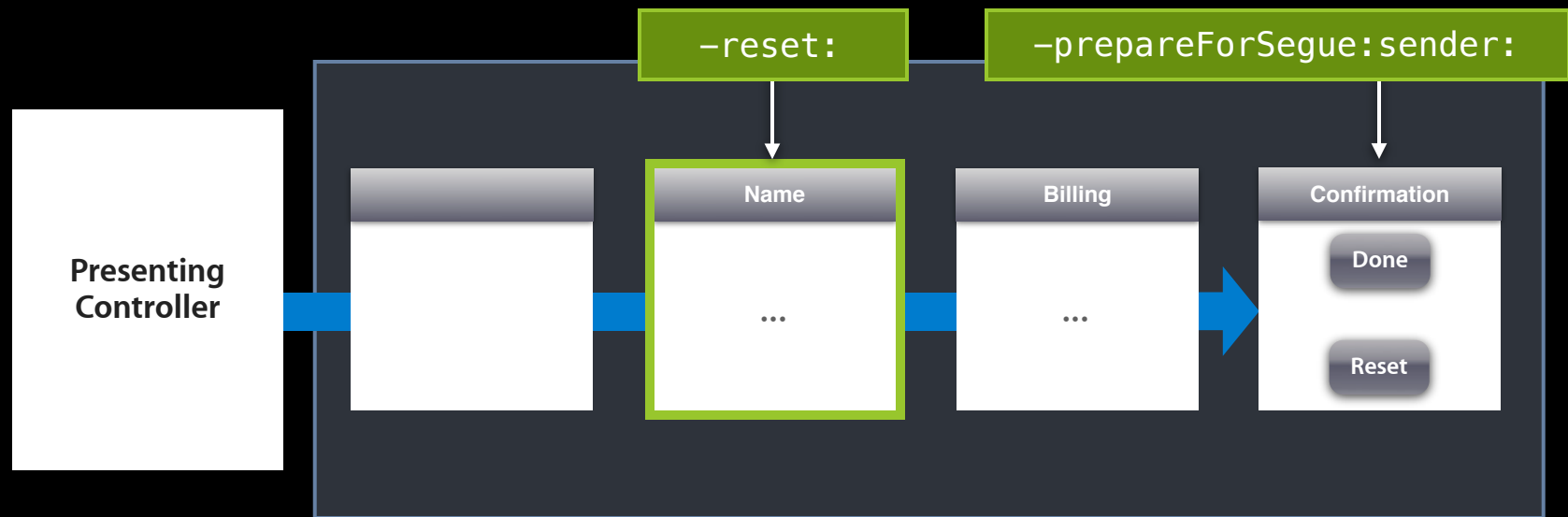
# Unwind Segues

Runtime searching



# Unwind Segues

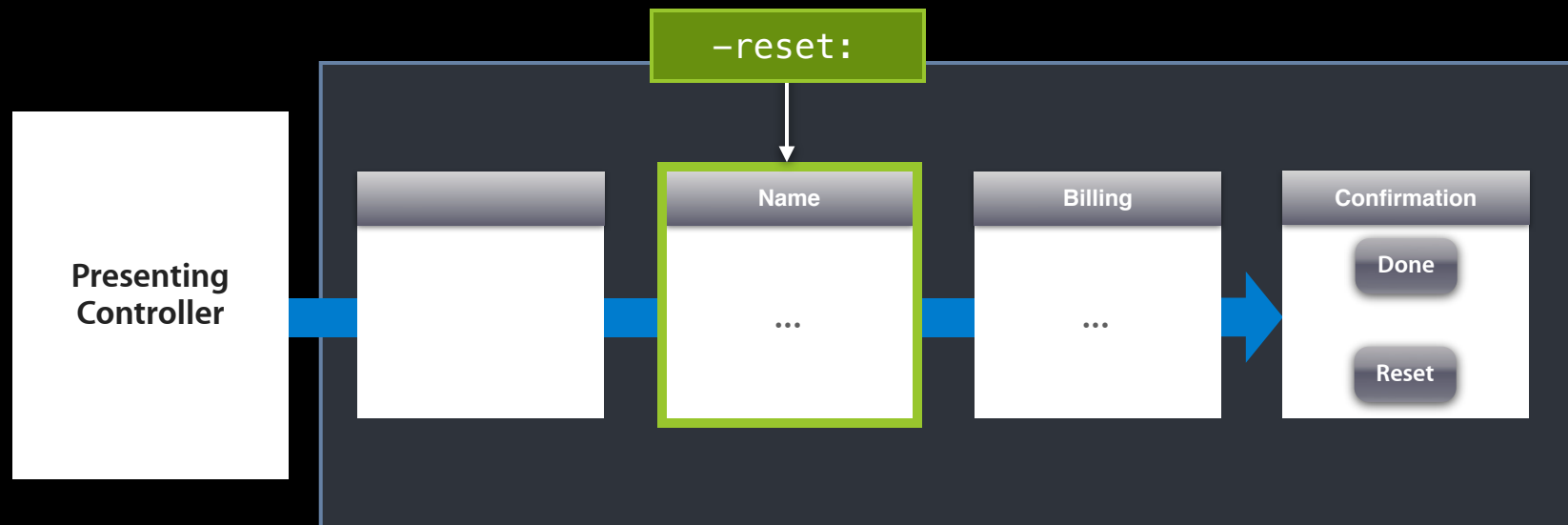
Runtime searching





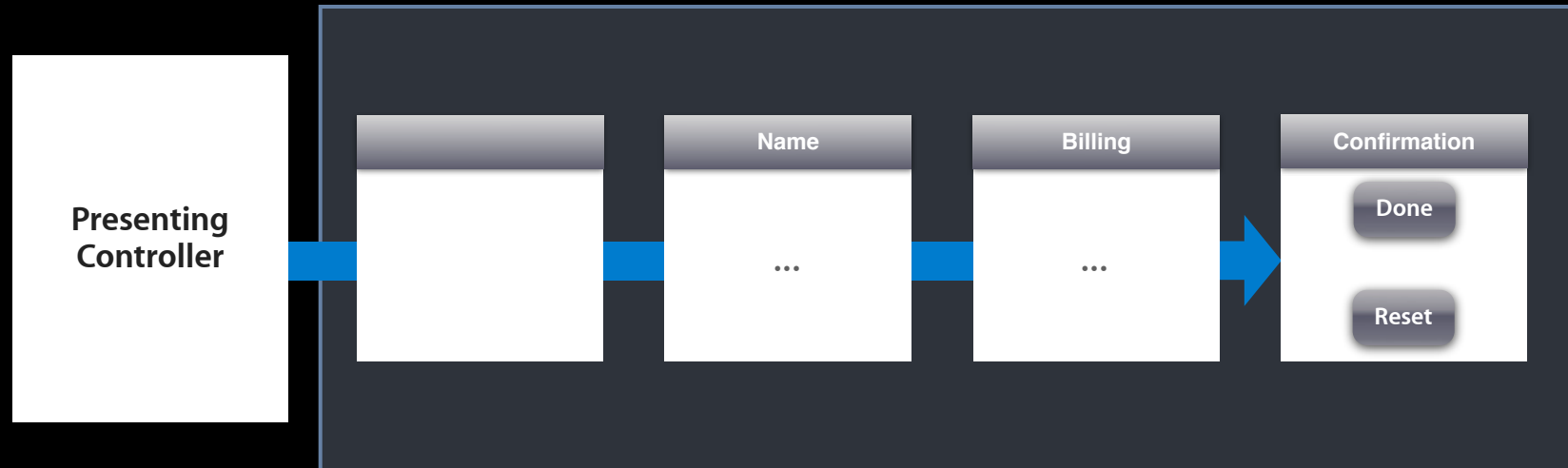
# Unwind Segues

Runtime searching



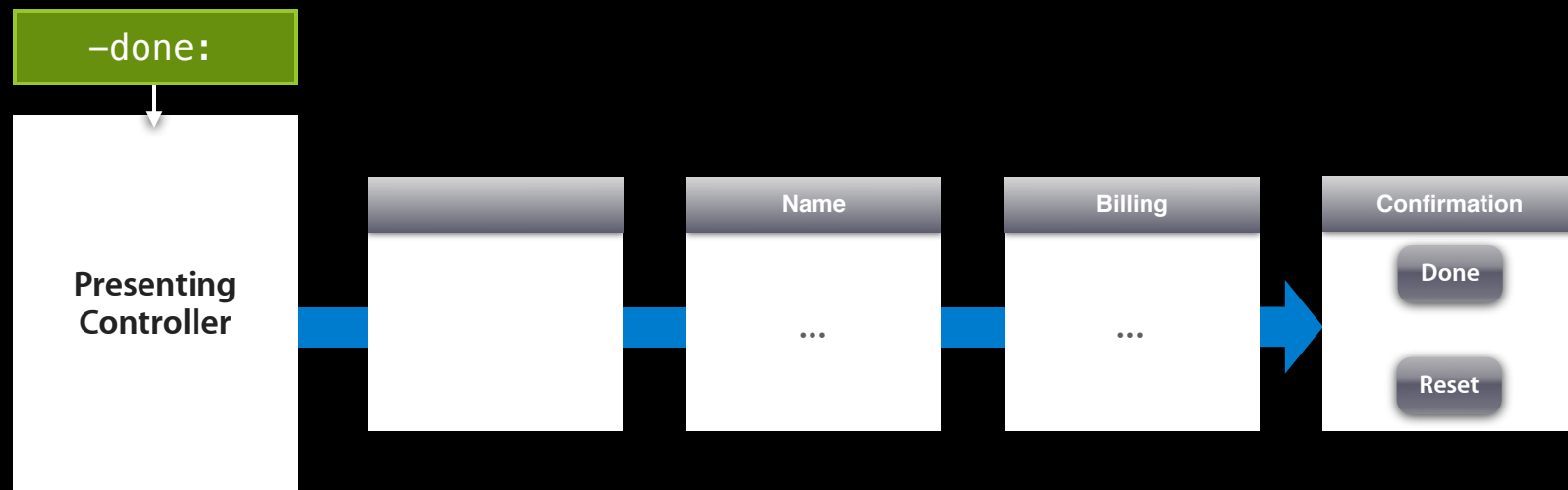
# Unwind Segues

Runtime searching



# Unwind Segues

Runtime searching



*Demo*

Unwind Segues

# More Information

**Michael Jurewitz**

Developer Tools Evangelist

[jury@apple.com](mailto:jury@apple.com)

**Apple Developer Forums**

<http://devforums.apple.com>

# Labs

Interface Builder Lab

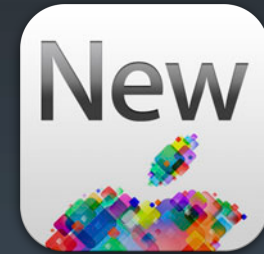
Developer Tools Lab C  
Thursday 9:00AM



Intro to Storyboards



Mixing Storyboards  
with code/XIBs



New in iOS 6

 WWDC2012



