What's New in Storyboards

Mapping the flow of your app

Session 215

Kyle Sluder UlKit Frameworks
Tony Ricciardi Development Technologies

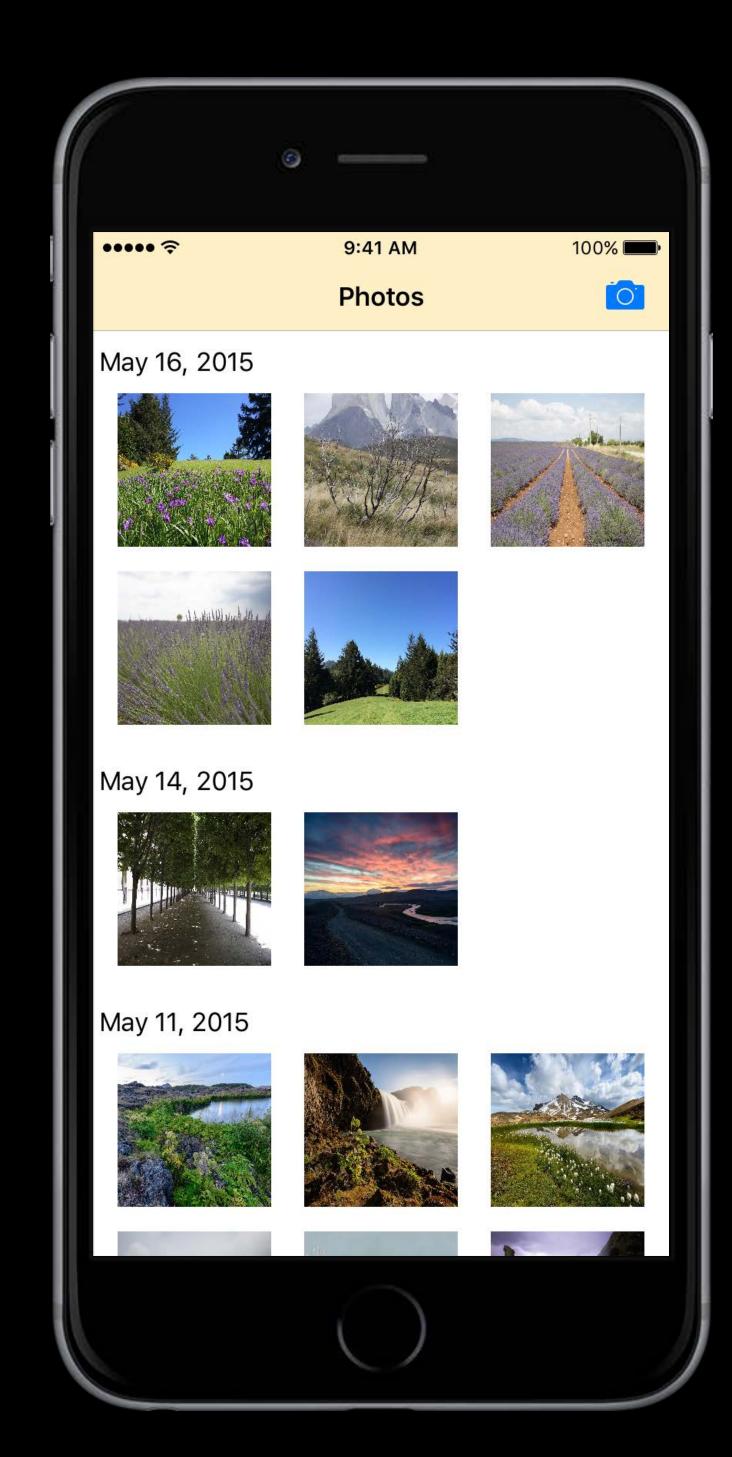
What's New

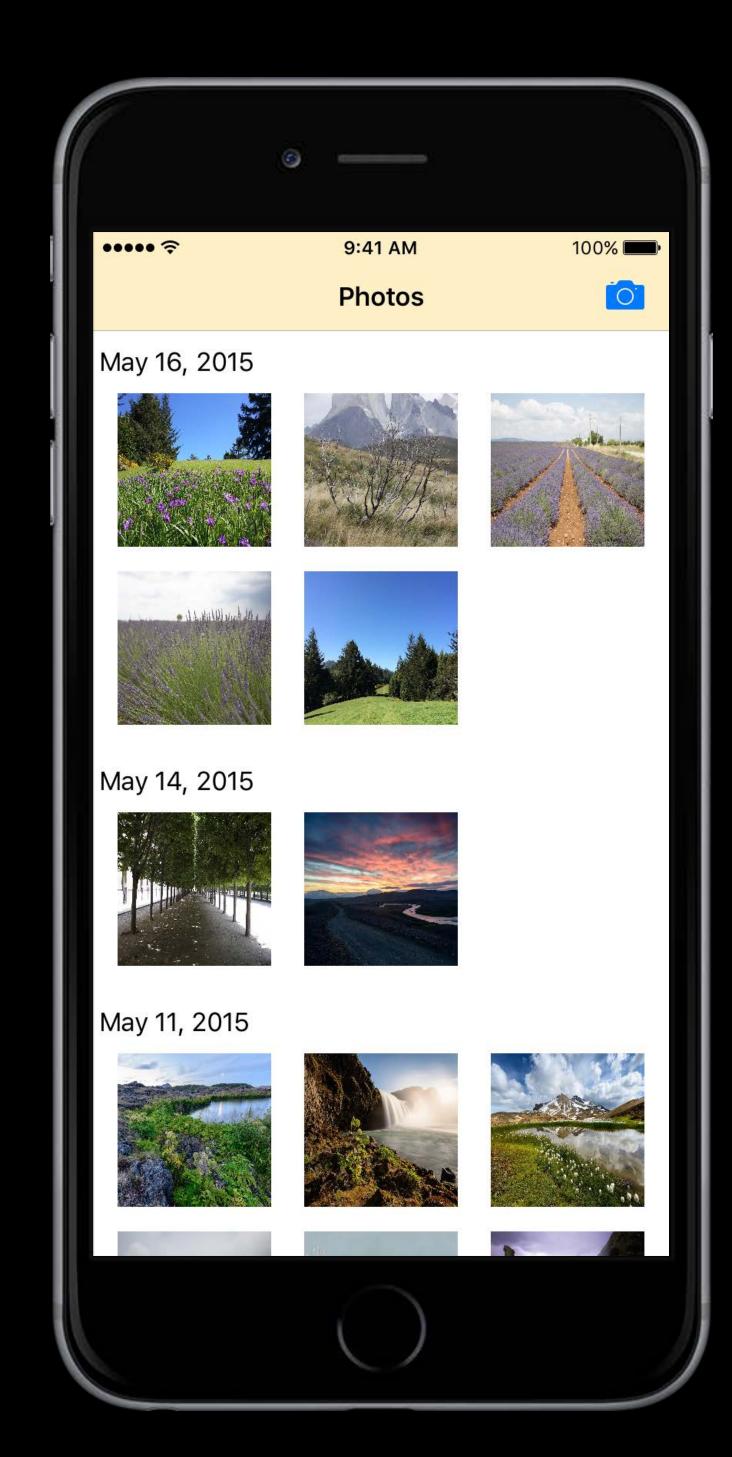
Organizing Your Storyboards

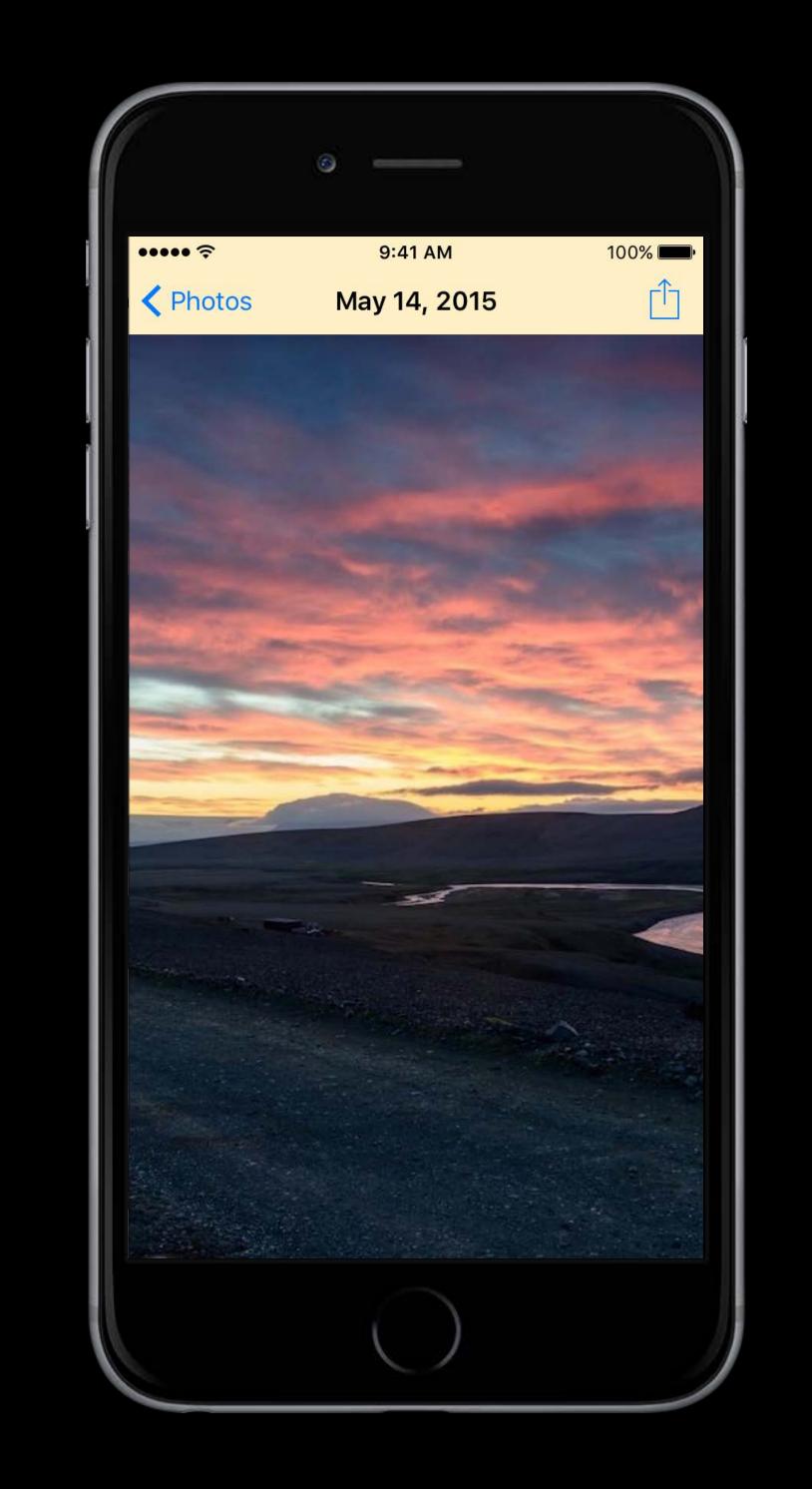
Customizing Standard Segues

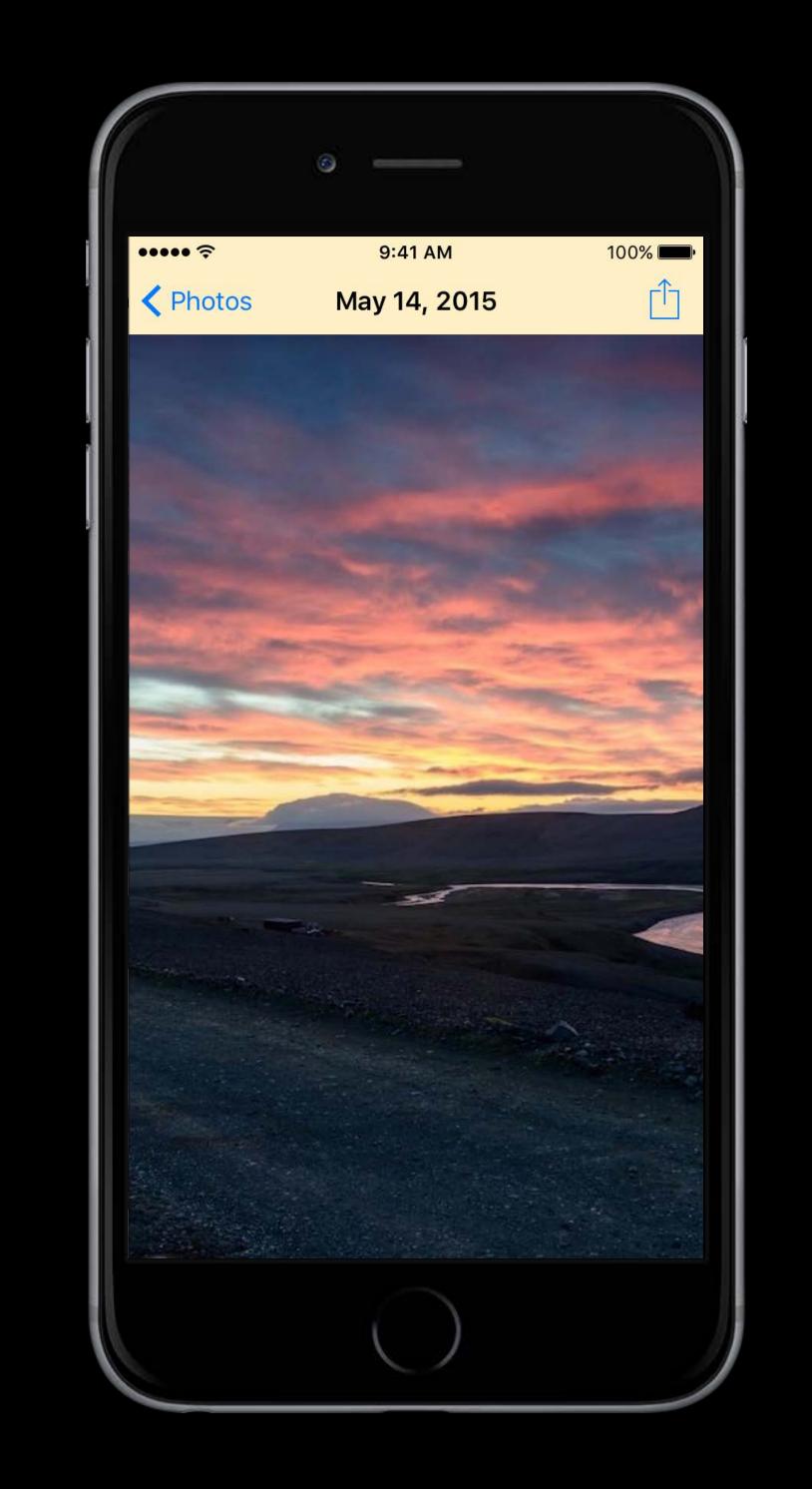
Unwind Segues and Custom Containers

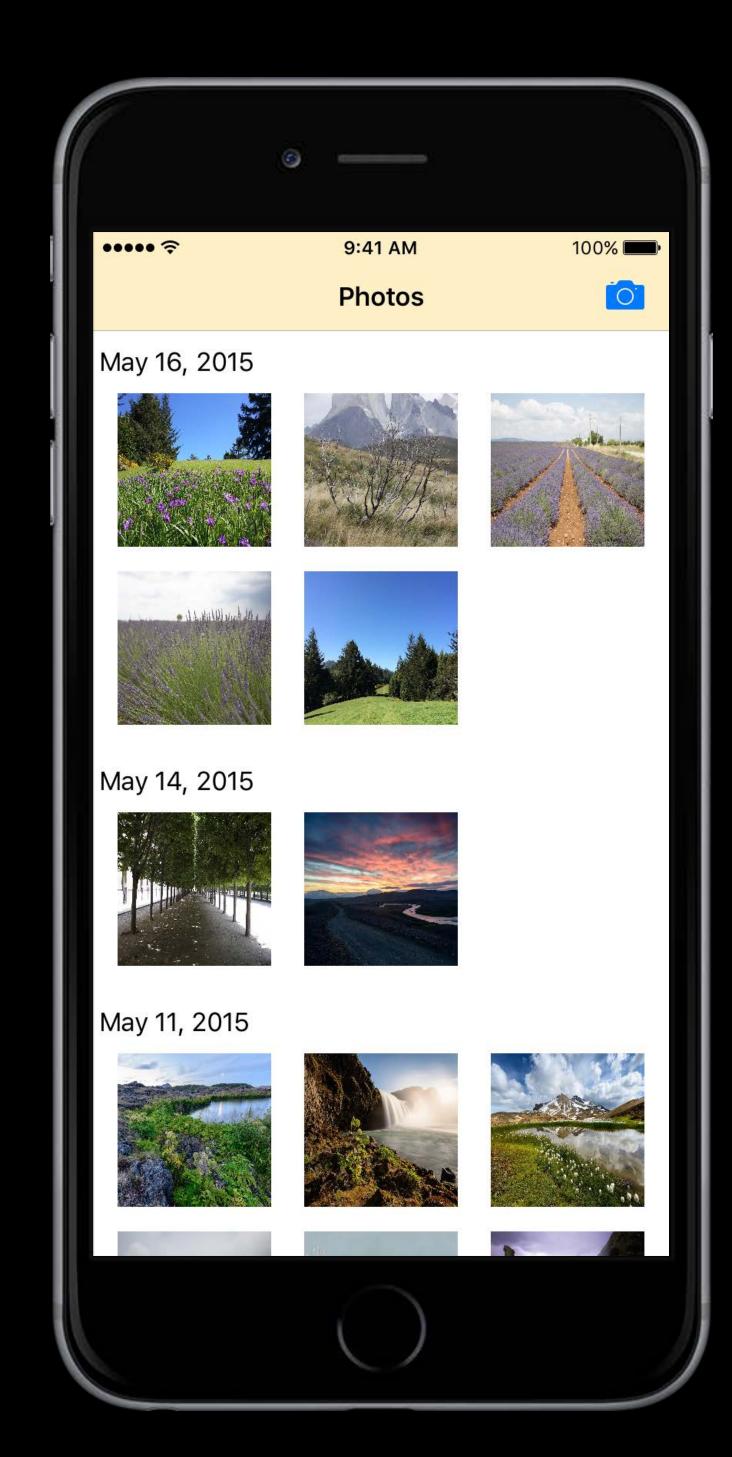
Organizing Your Storyboards

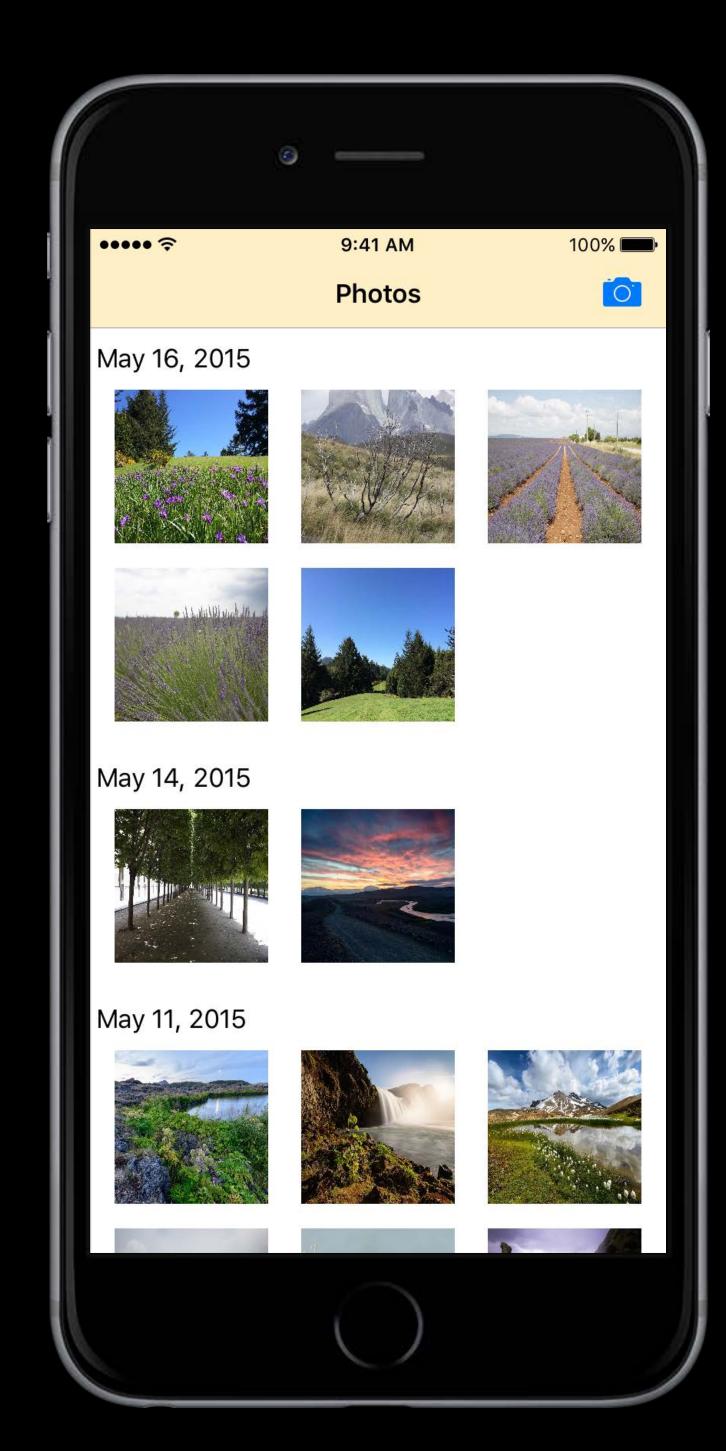




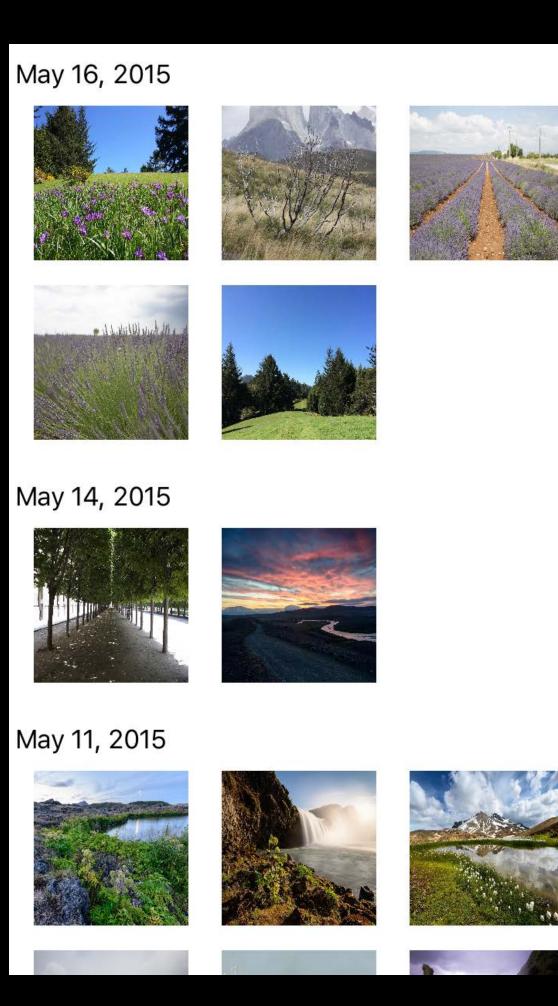


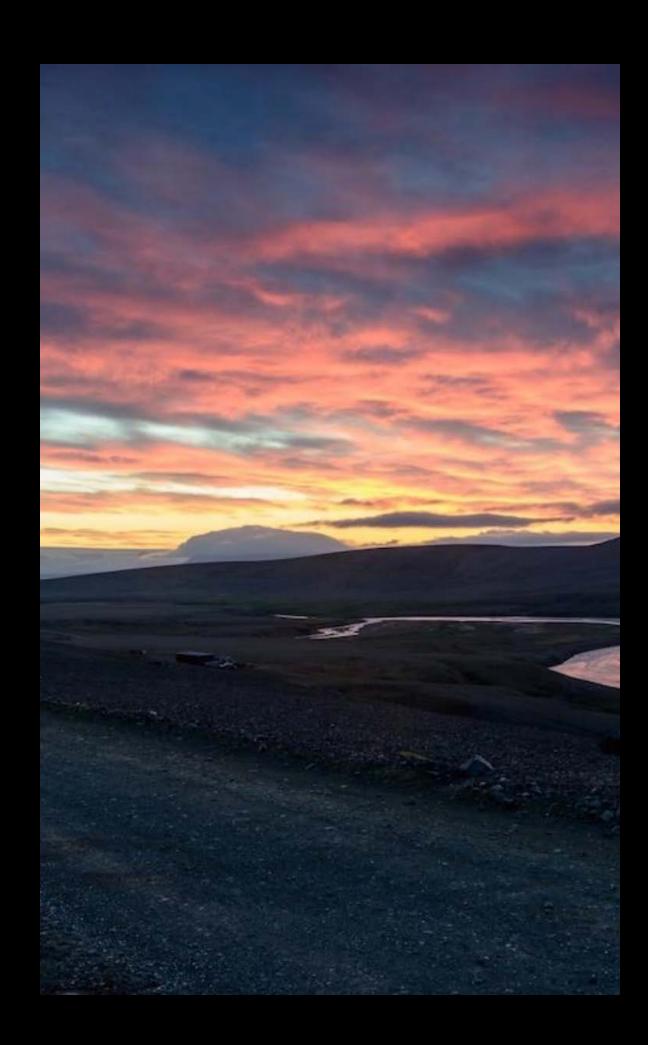


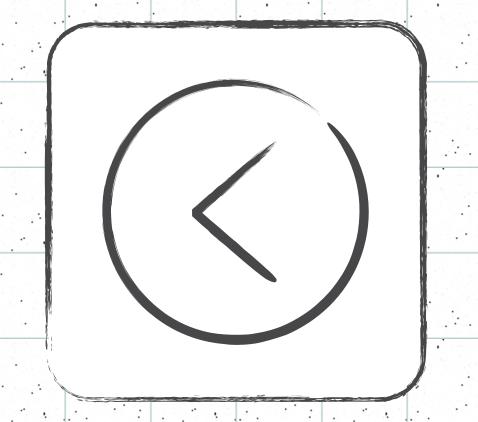


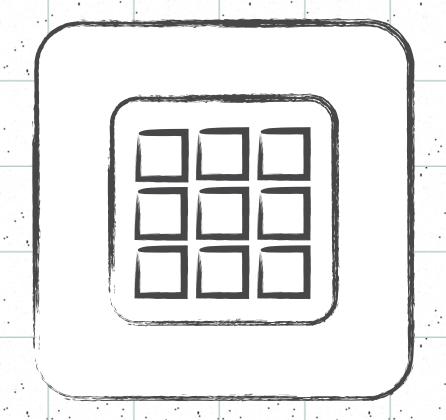


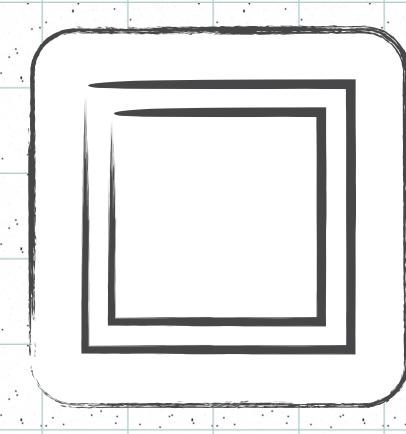








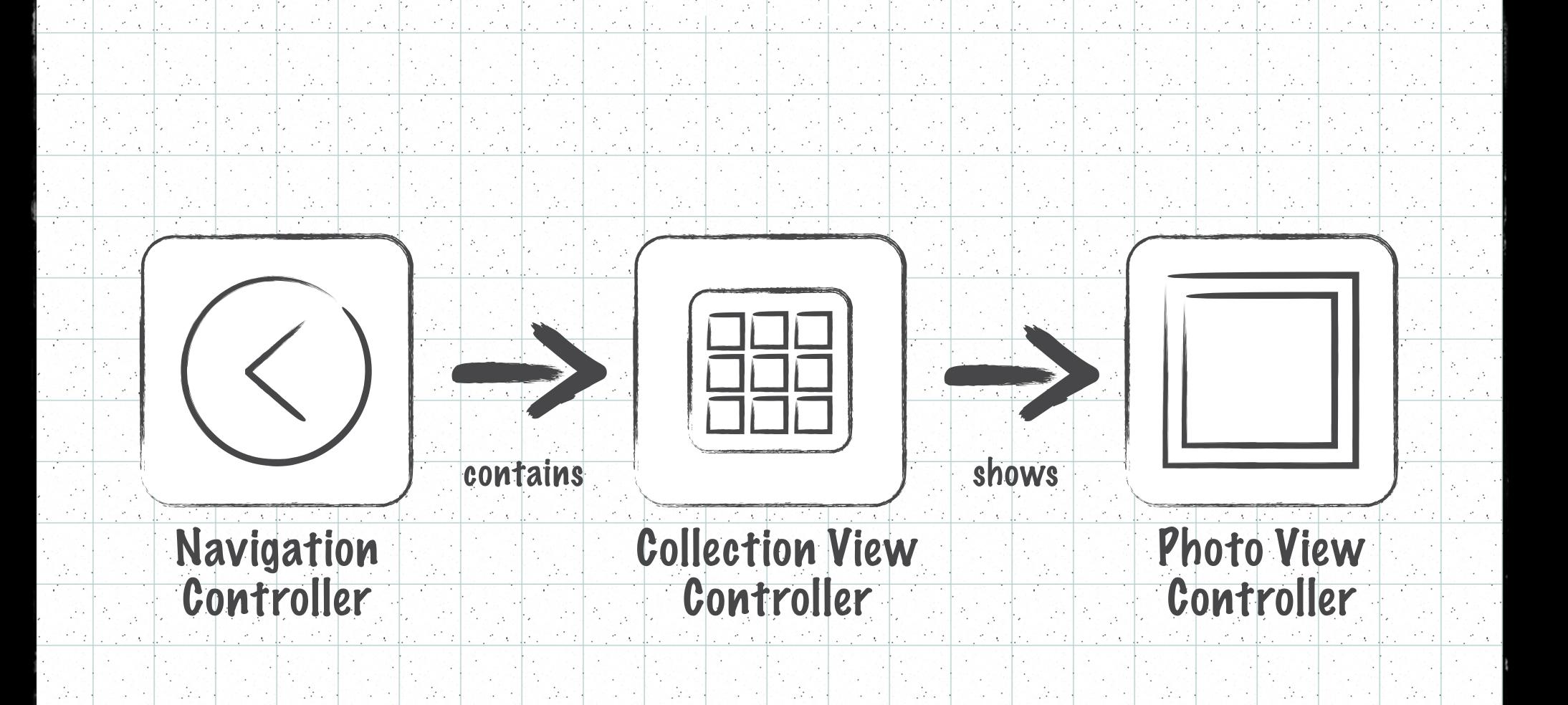




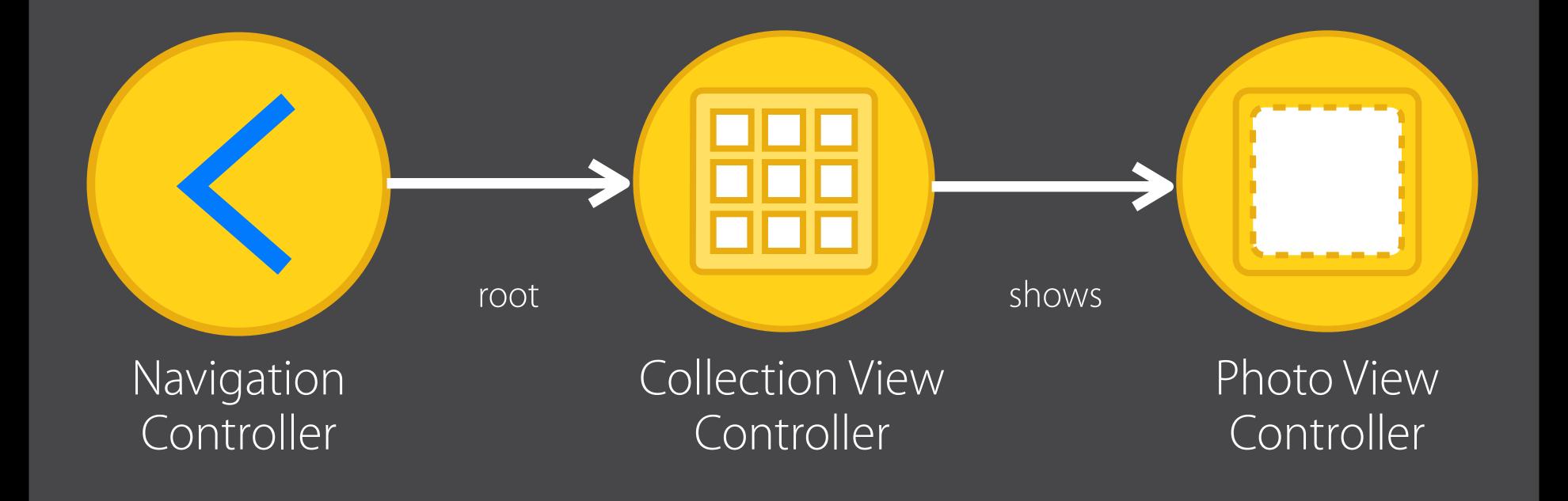
Navigation Controller

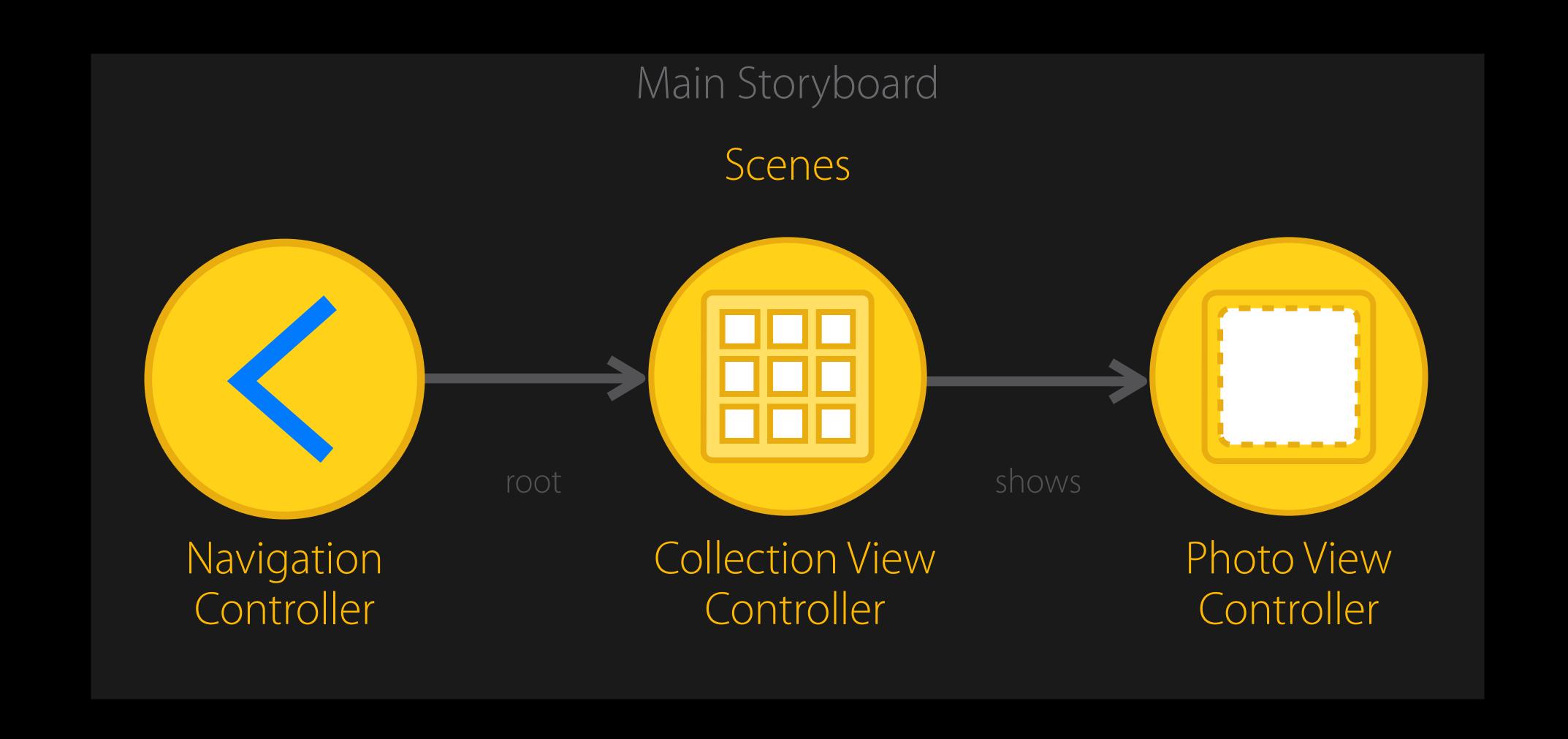
Collection View Controller

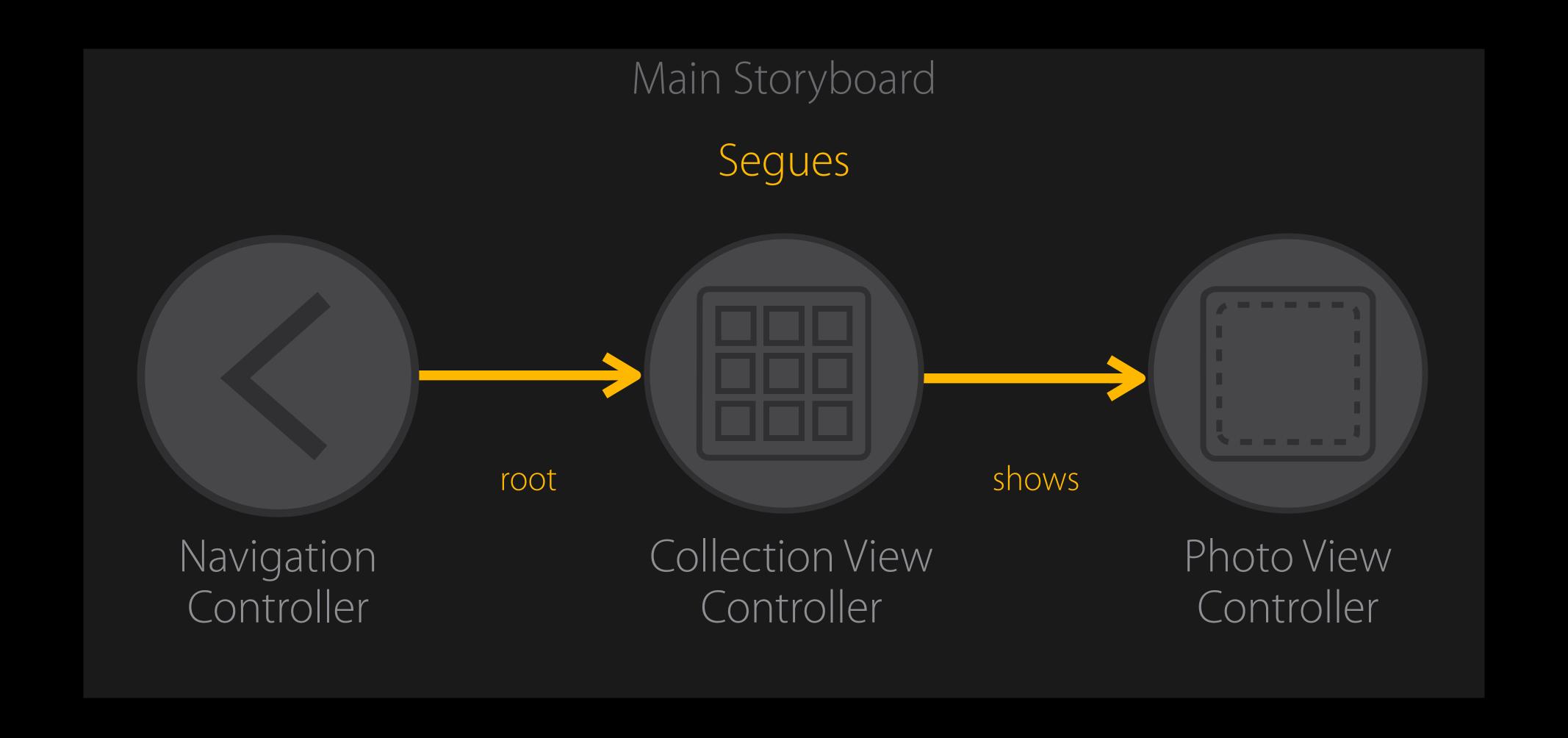
Photo View Controller

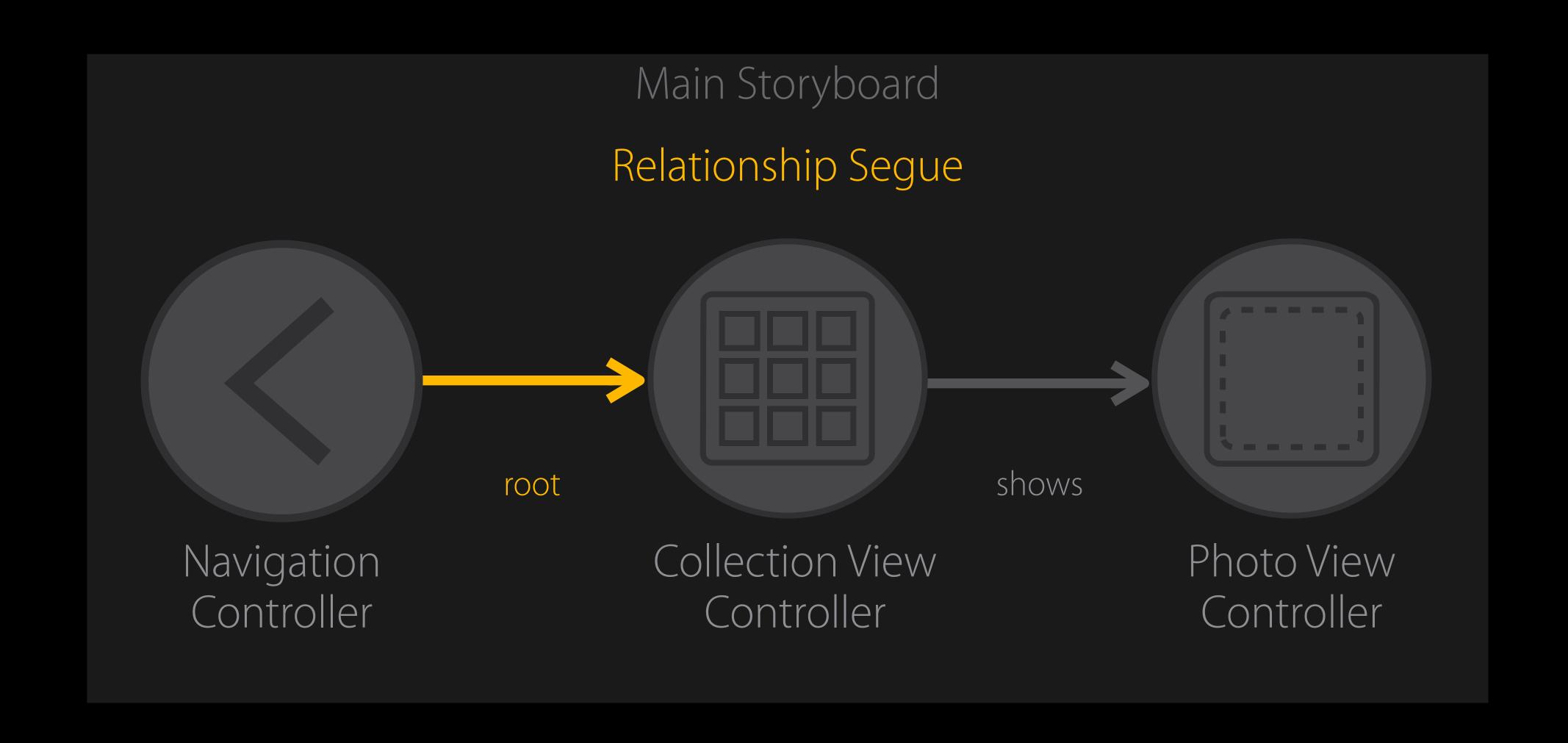


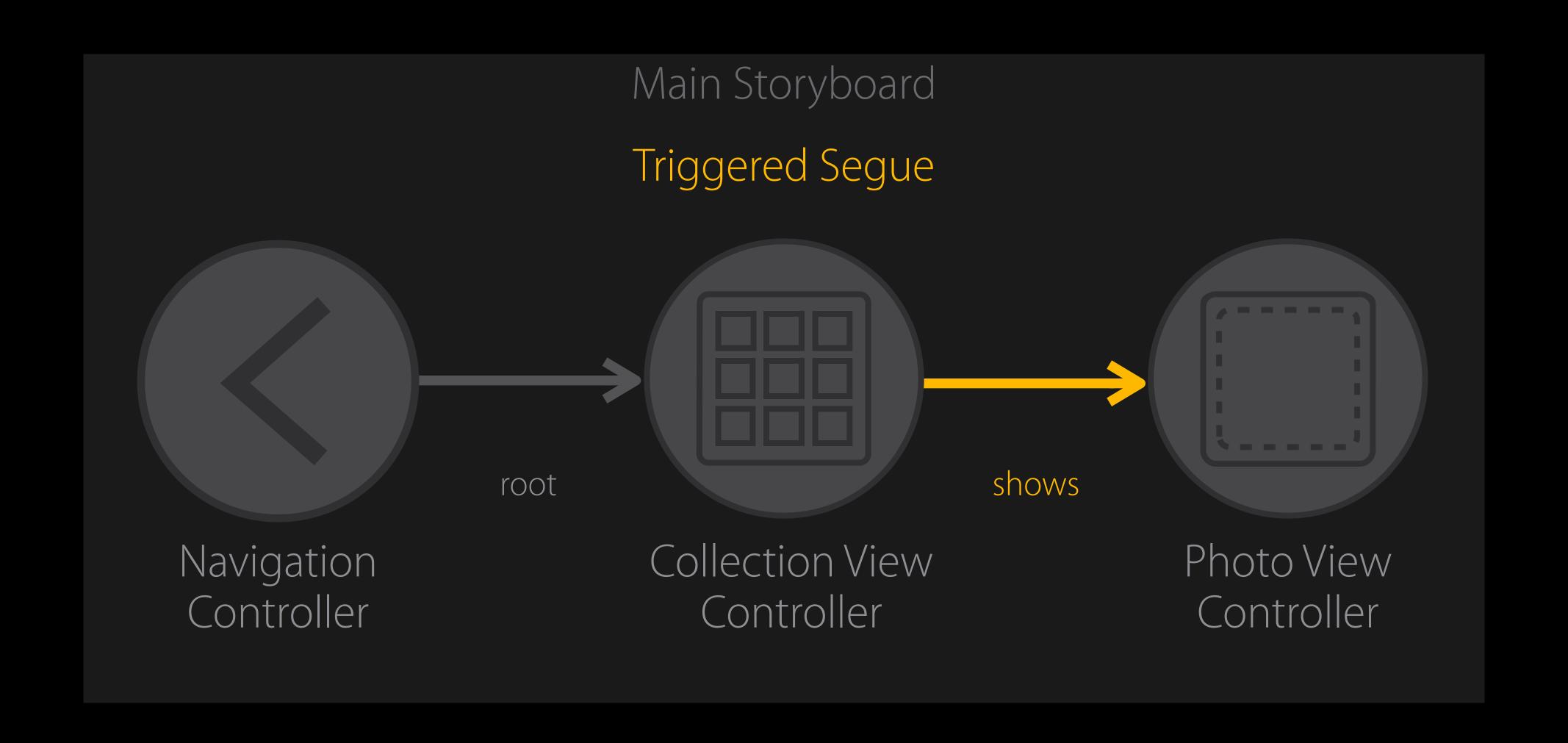
Main Storyboard



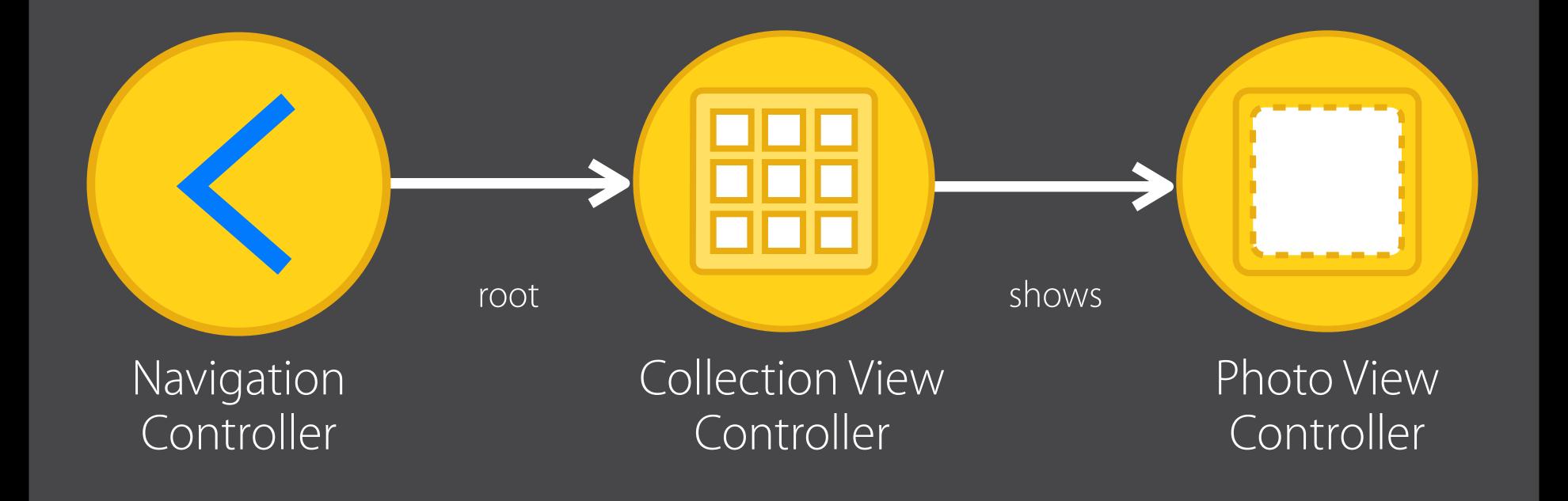


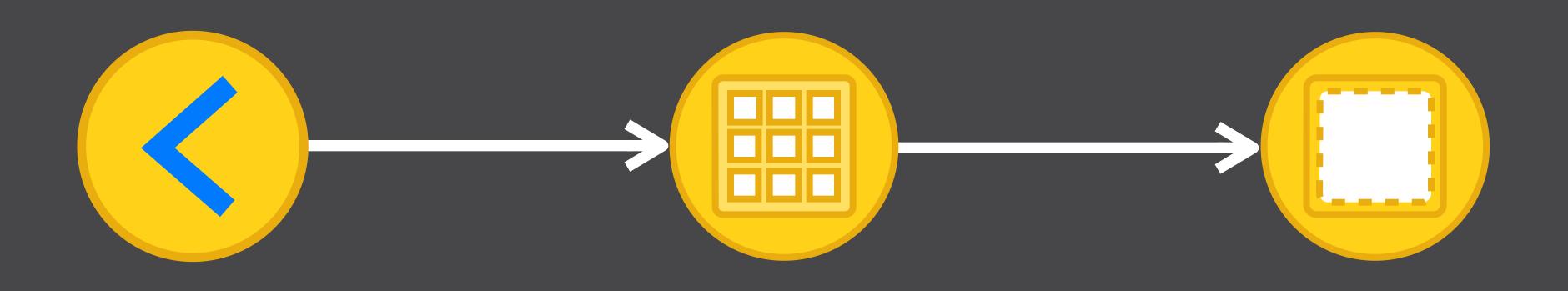




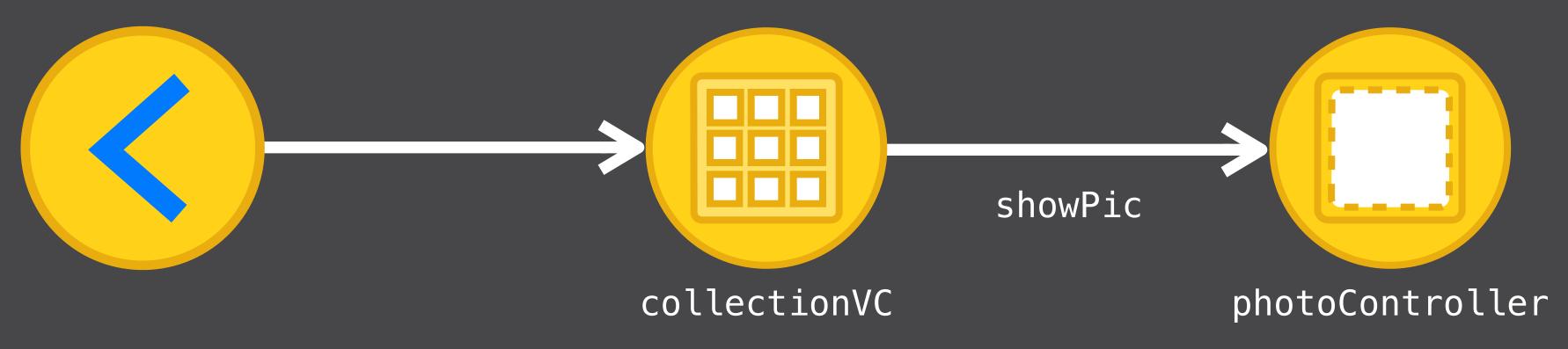


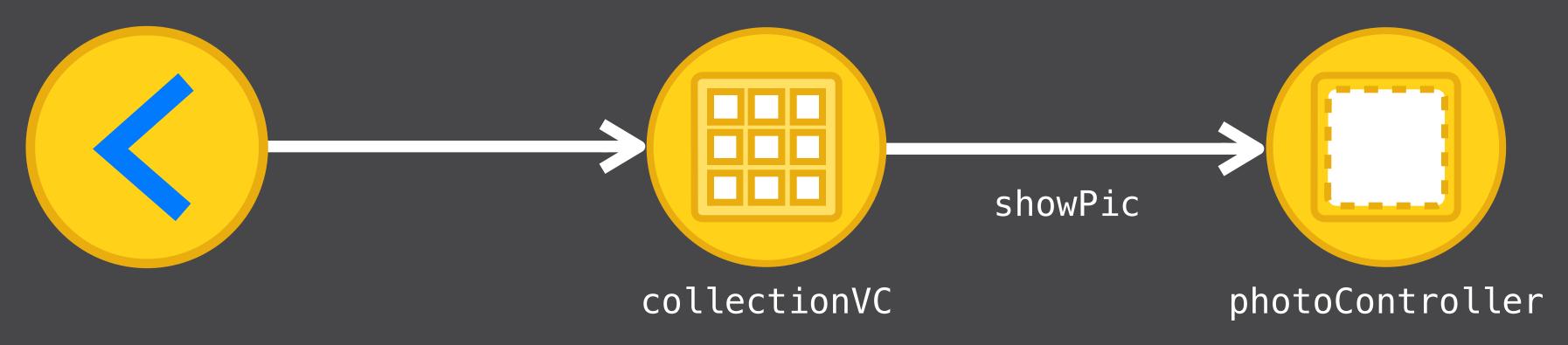
Main Storyboard

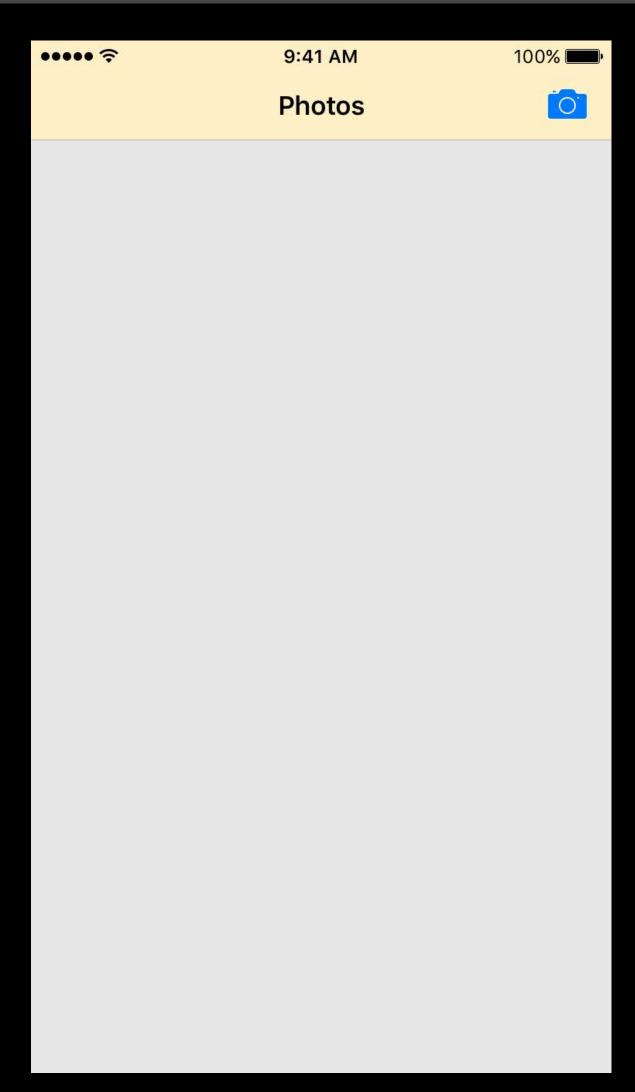


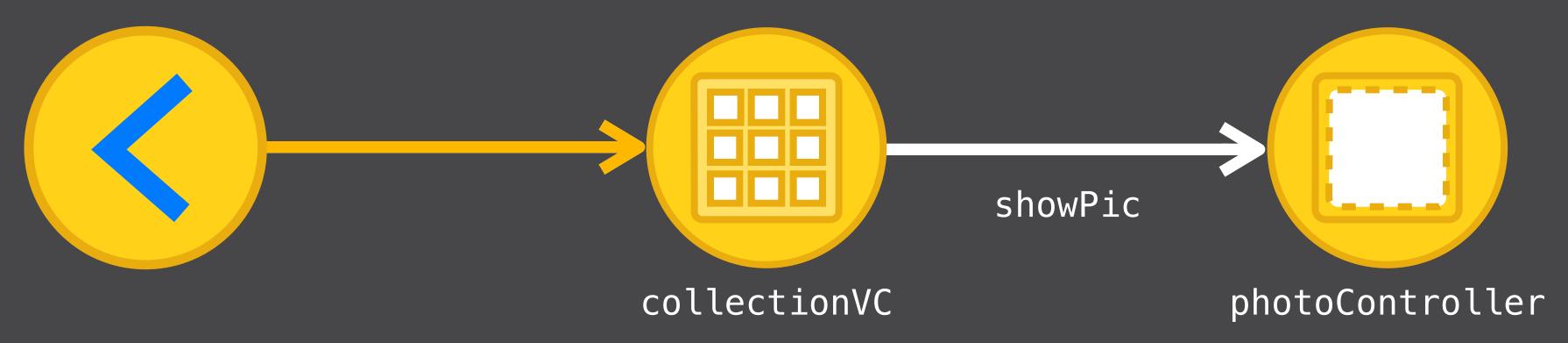


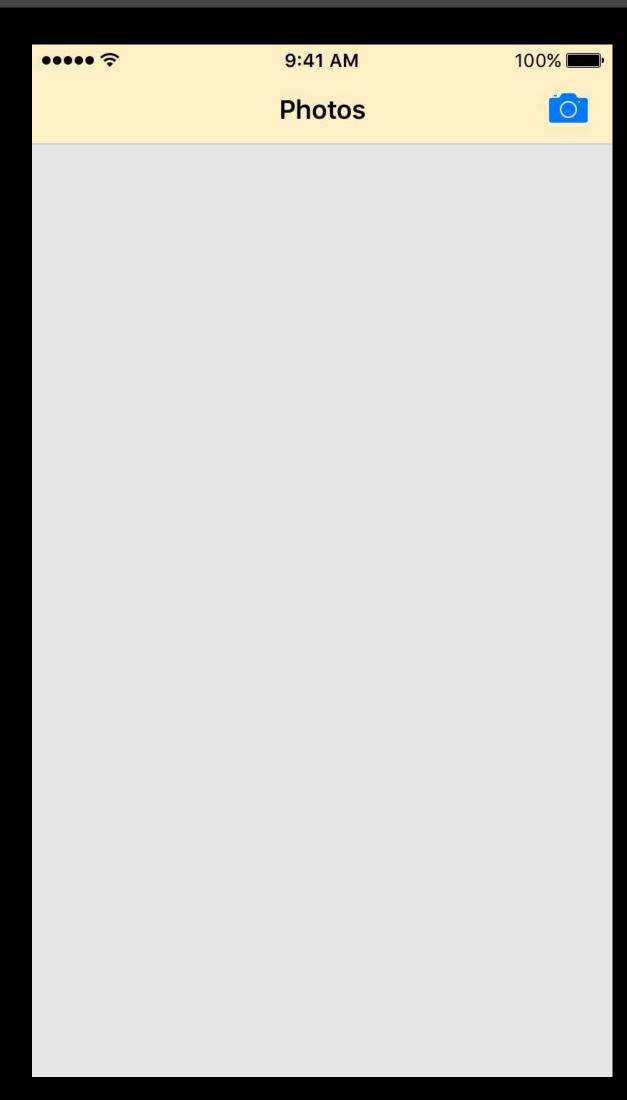
Main.storyboard

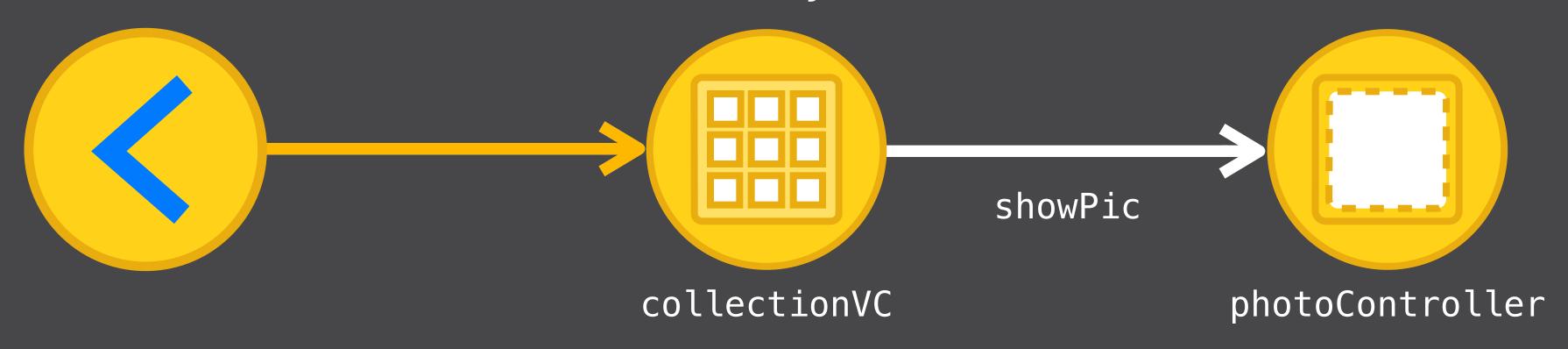


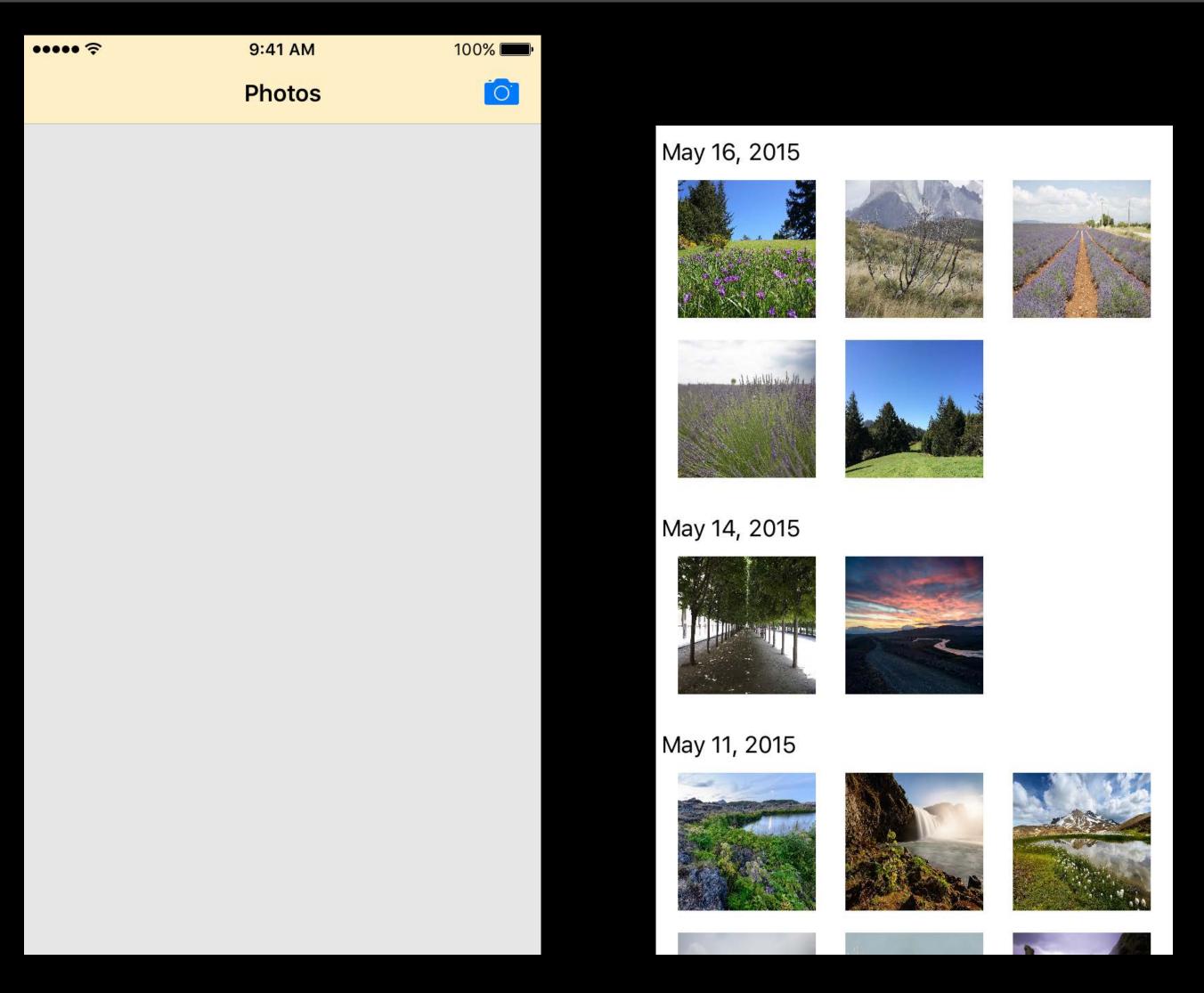




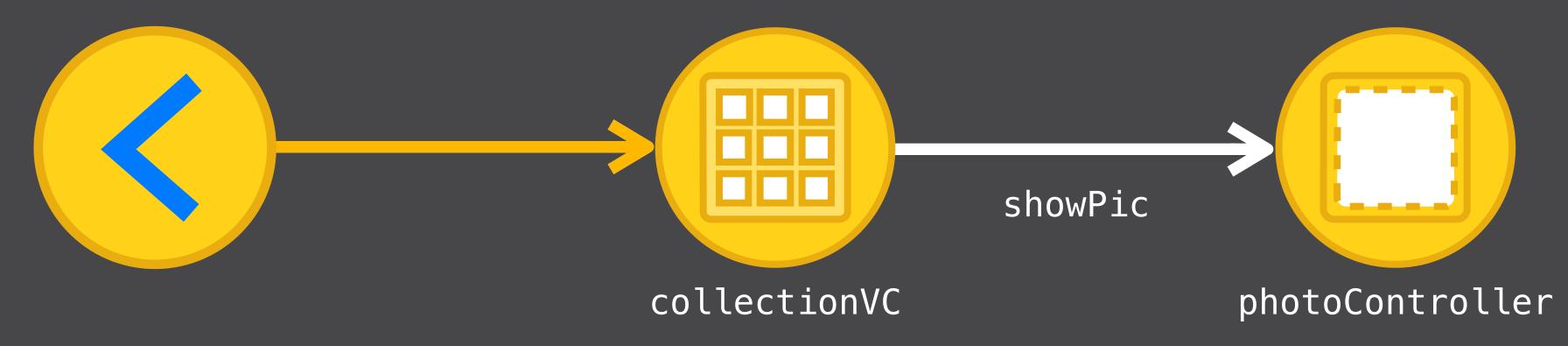


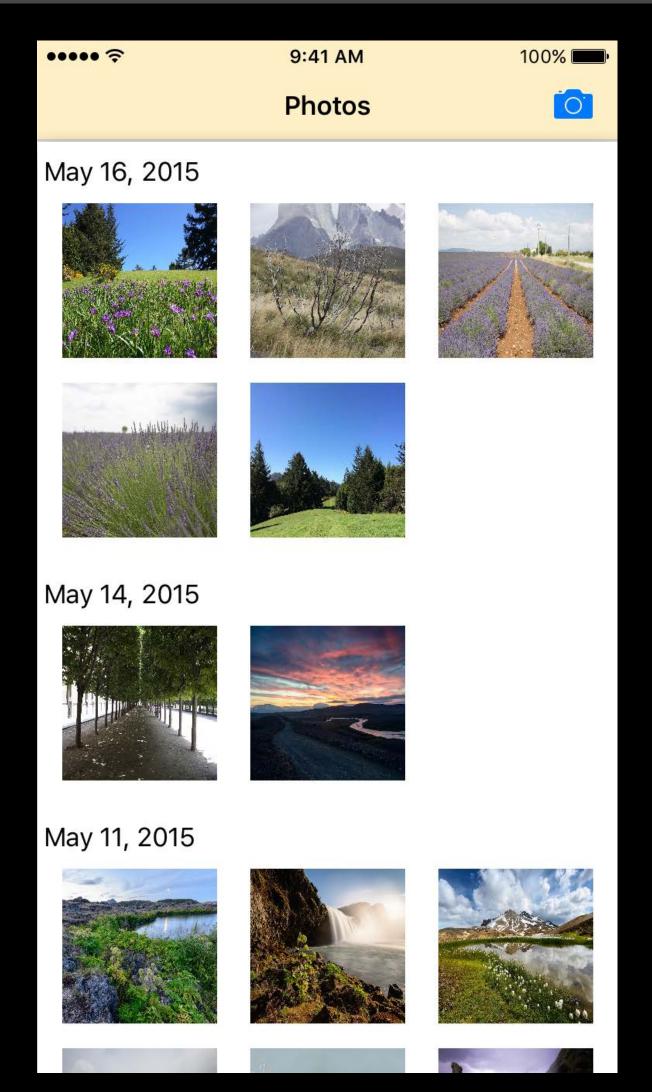




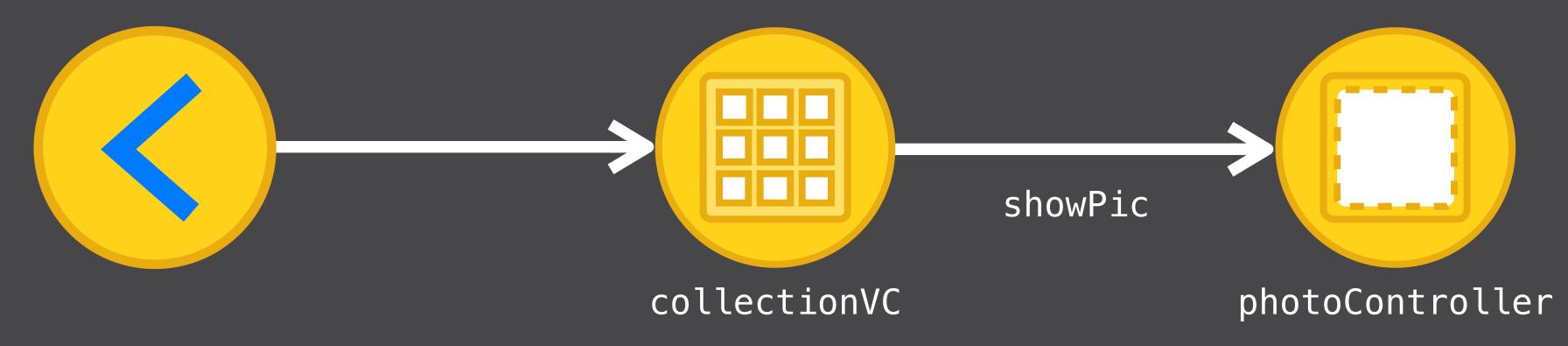


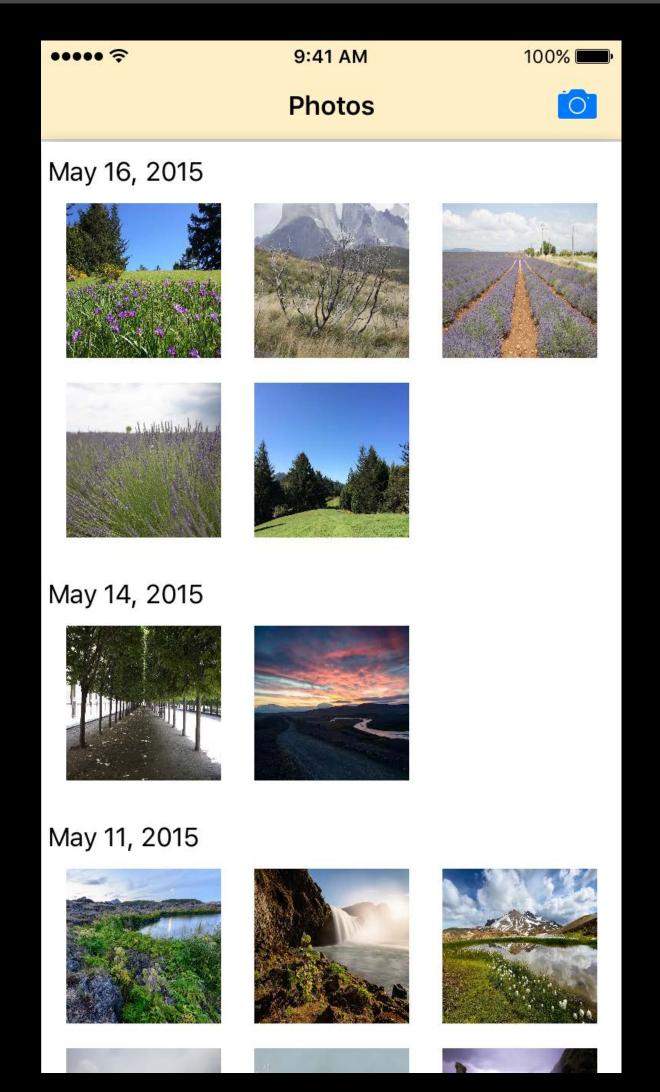
Main.storyboard



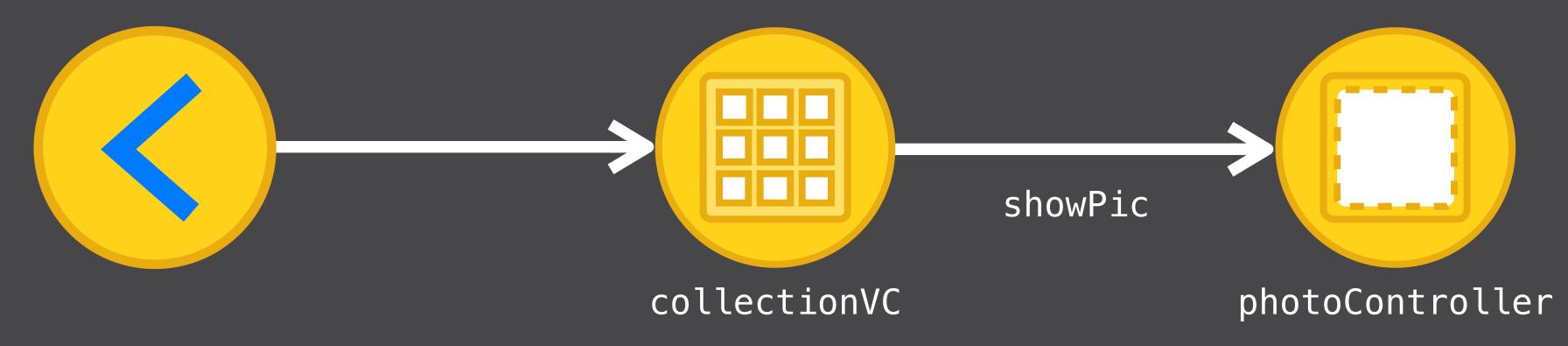


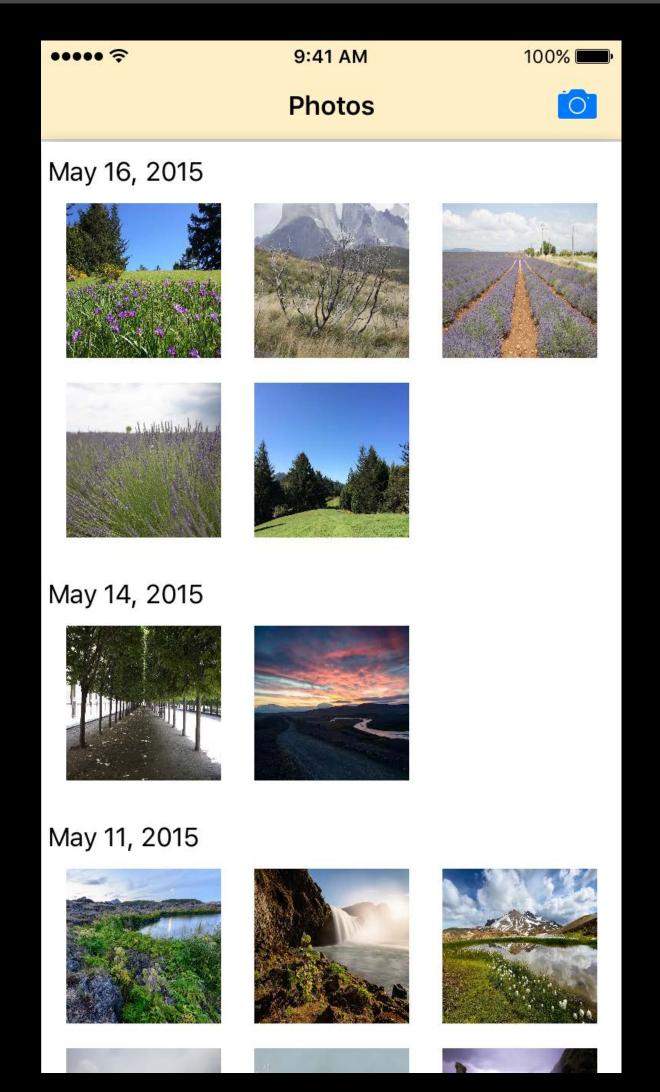
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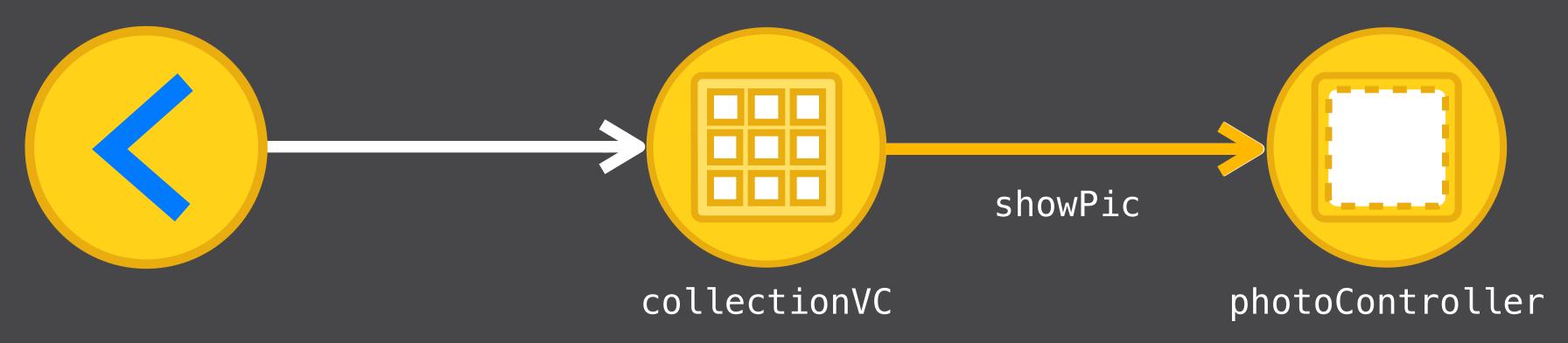


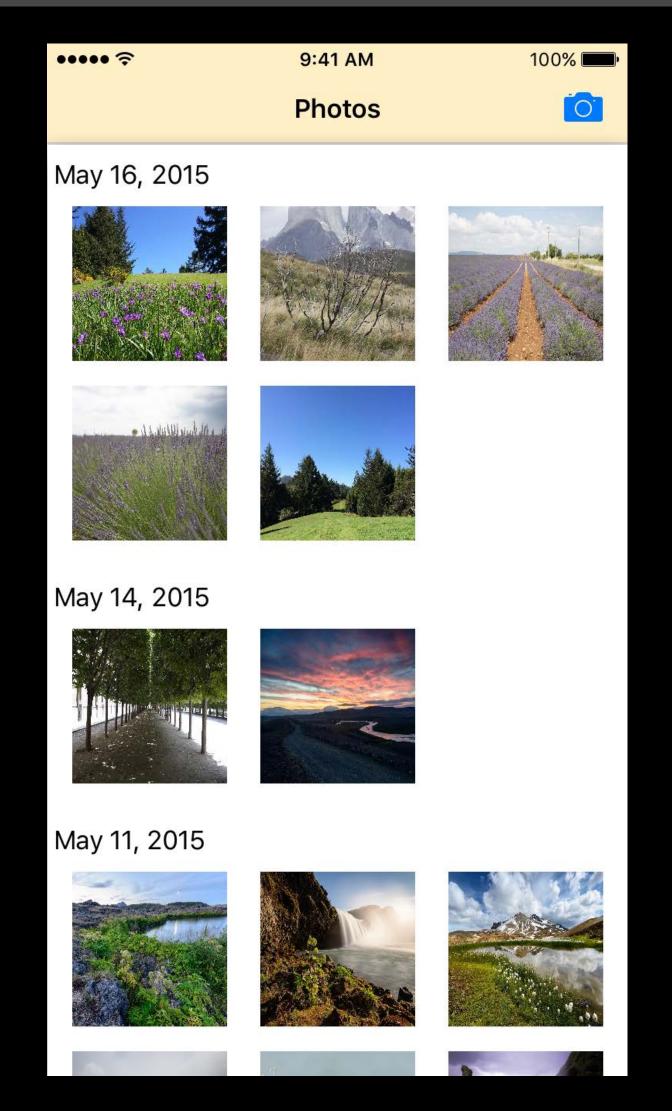


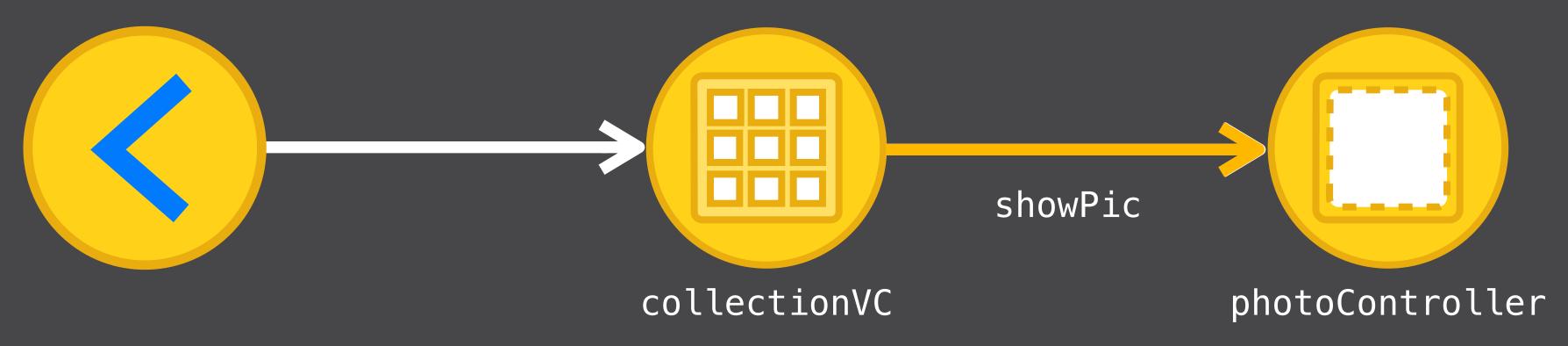
Main.storyboard

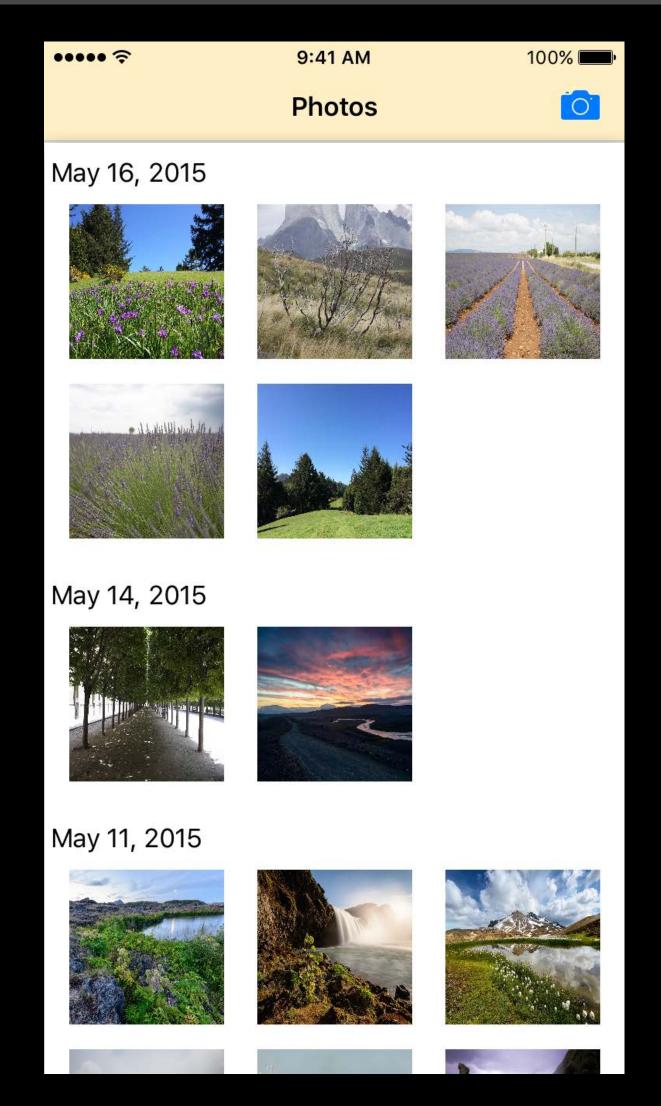


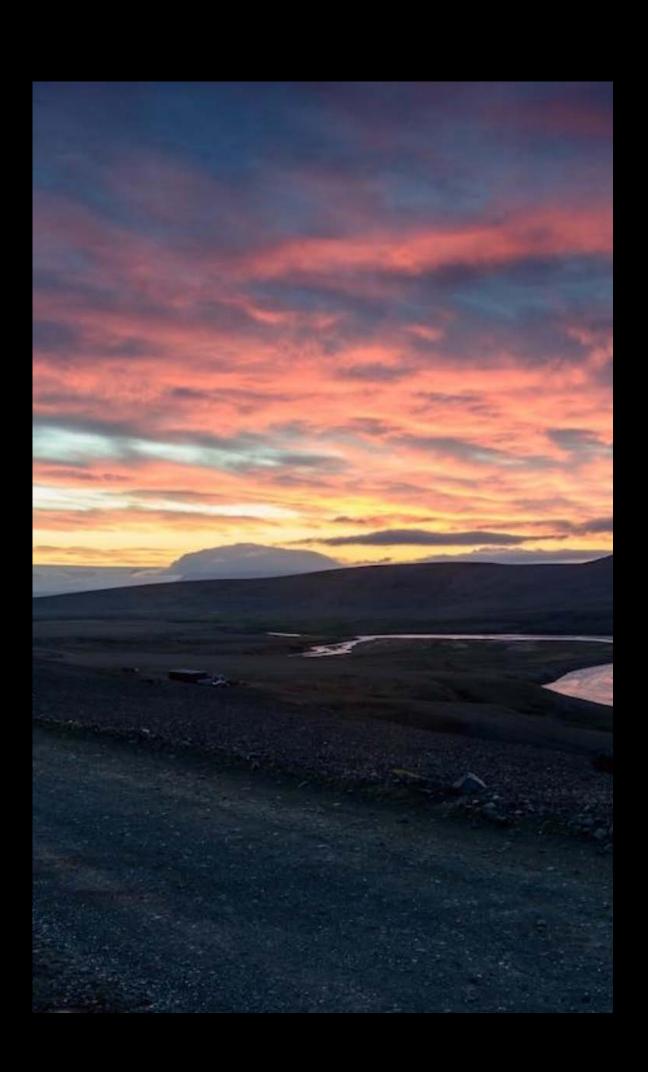




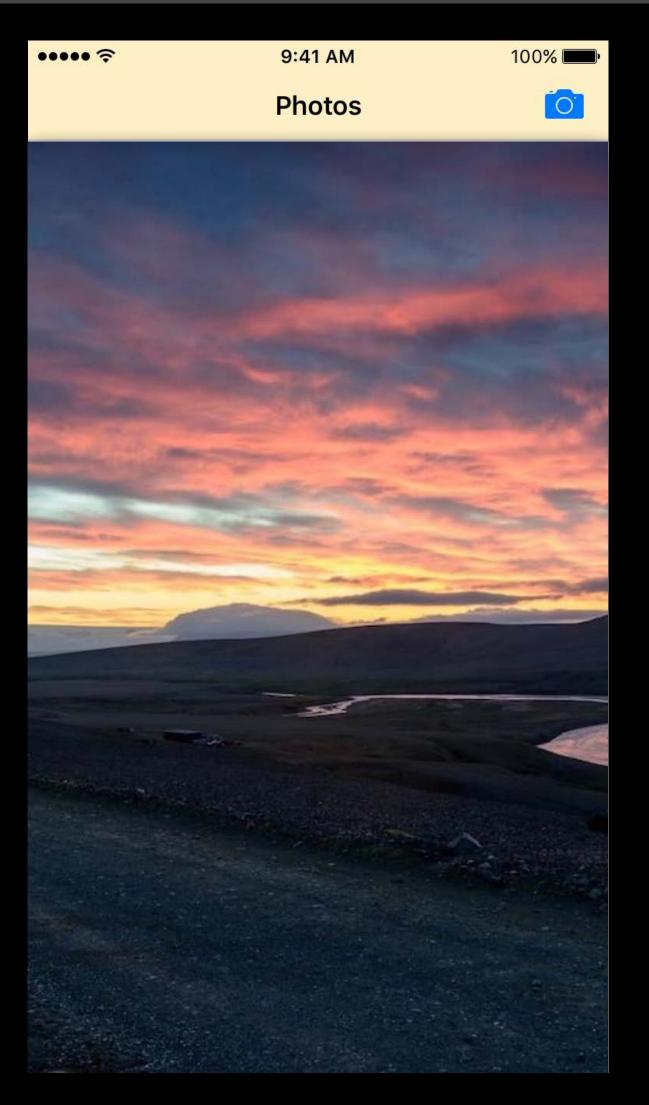


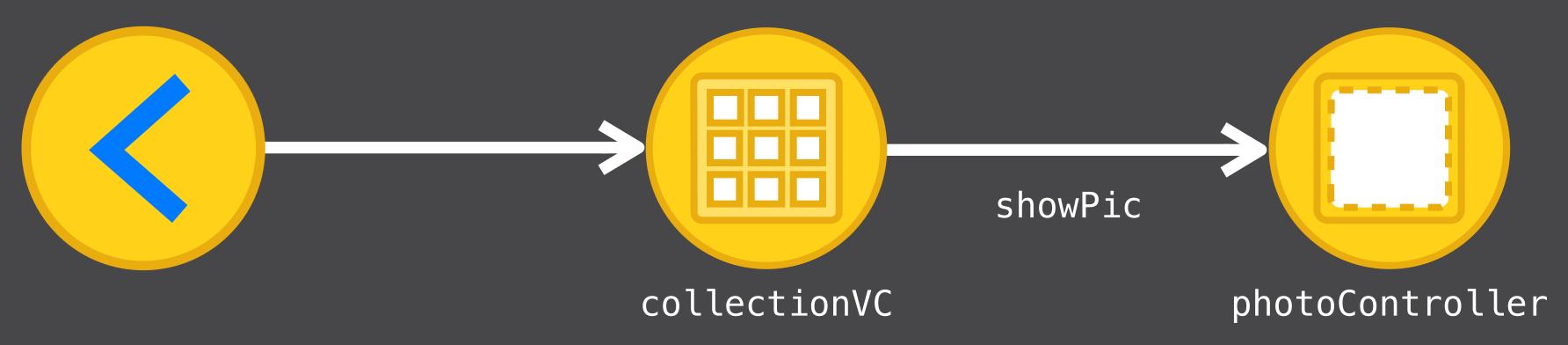


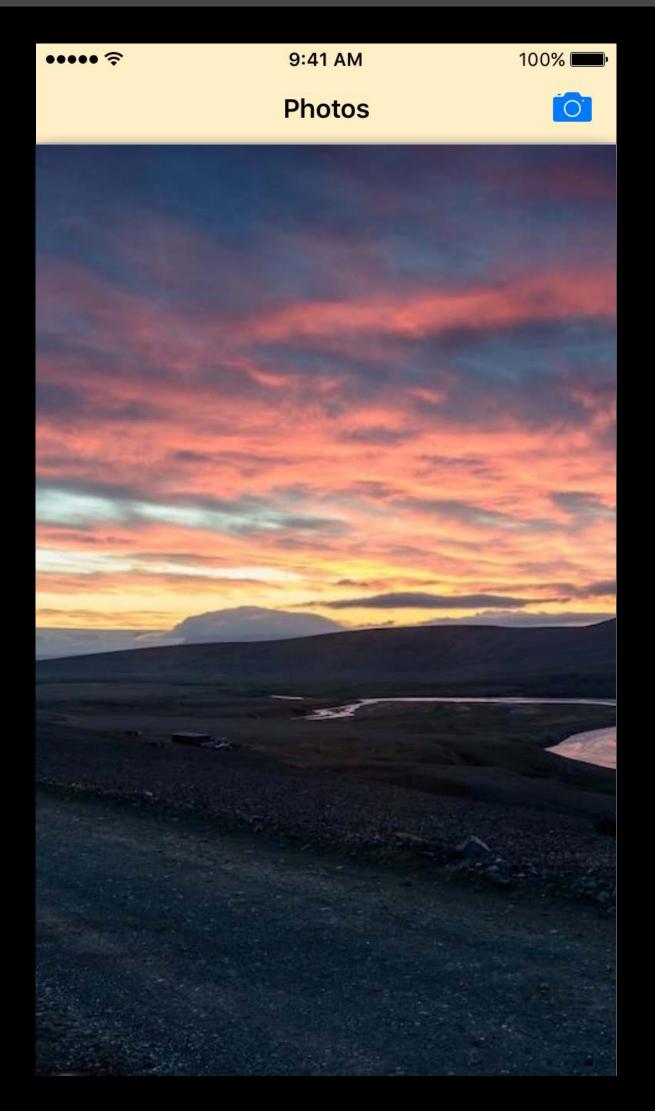


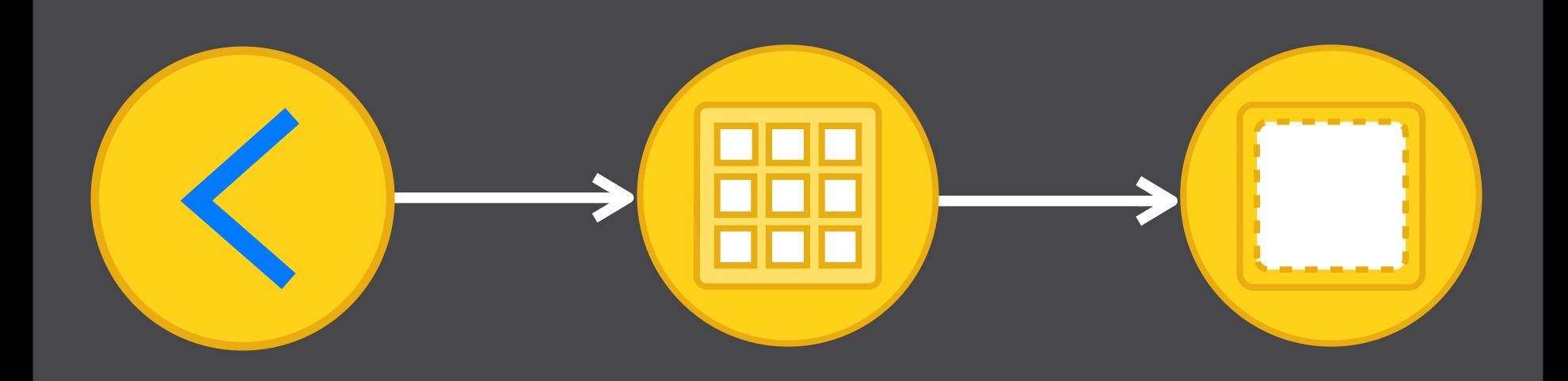










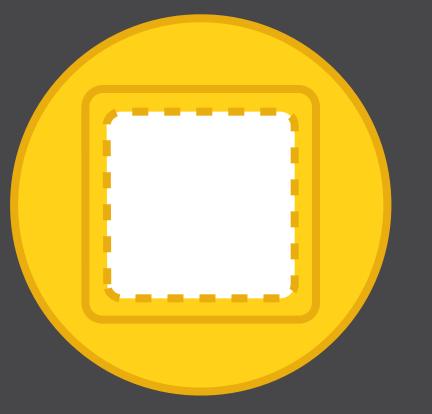


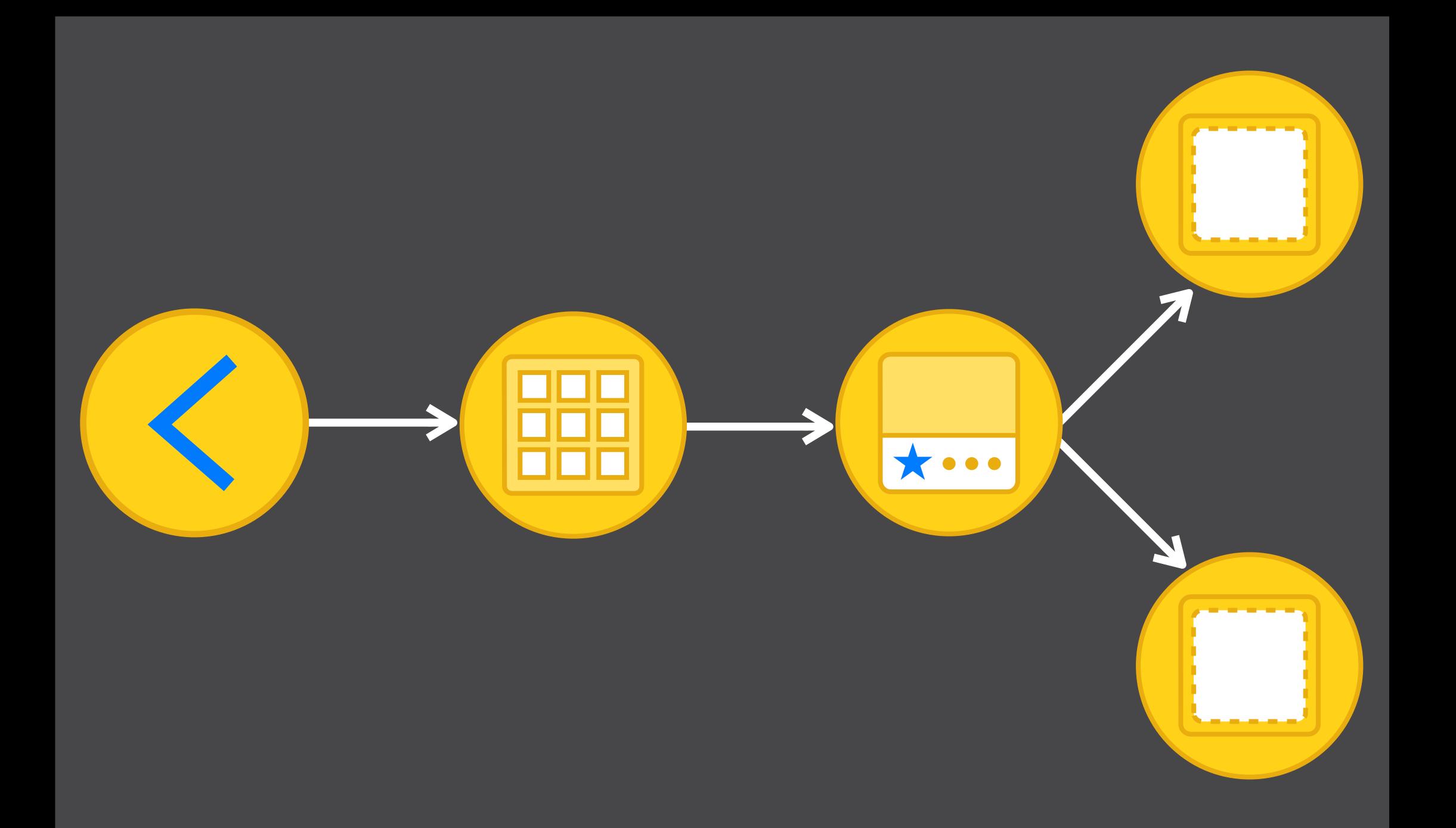


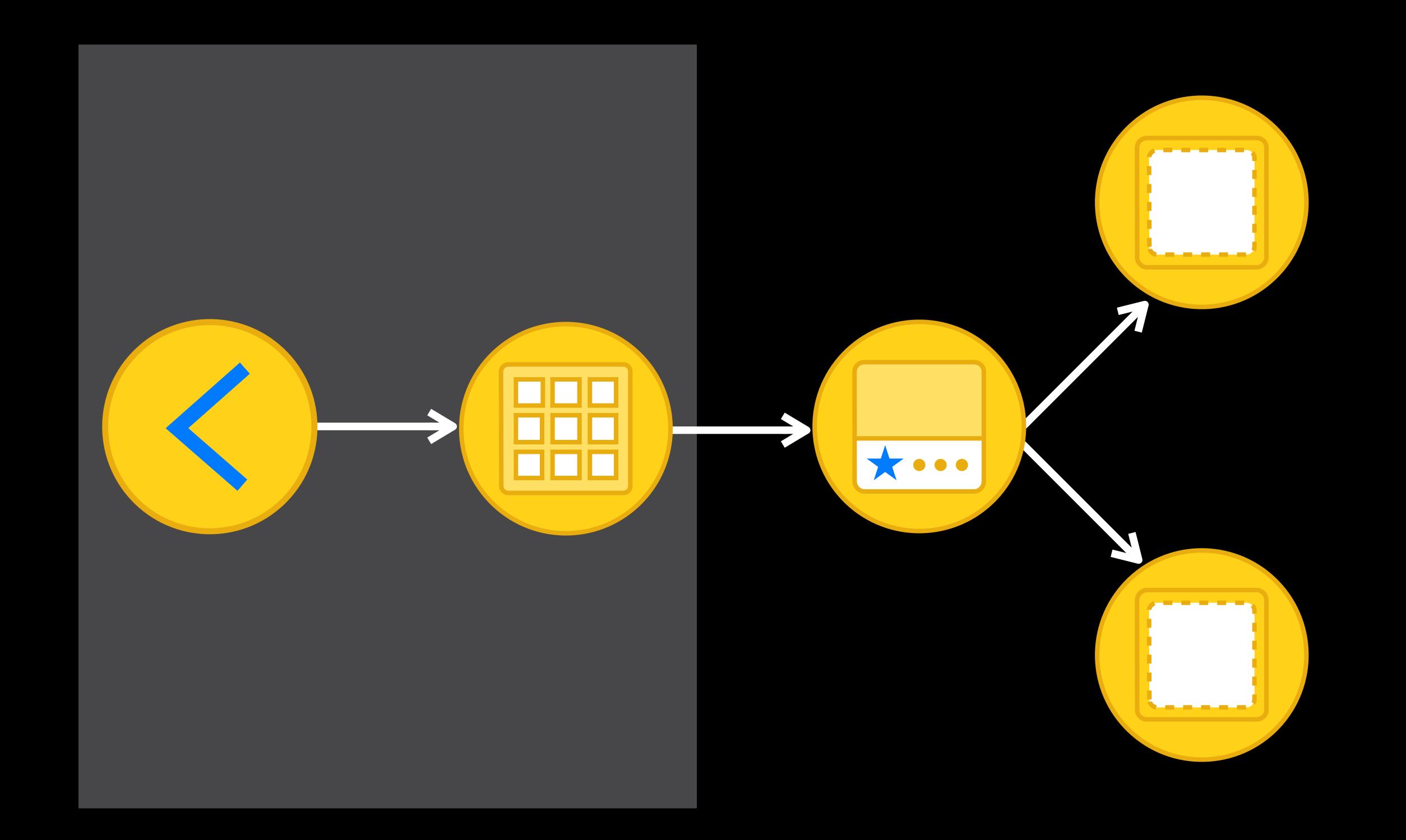


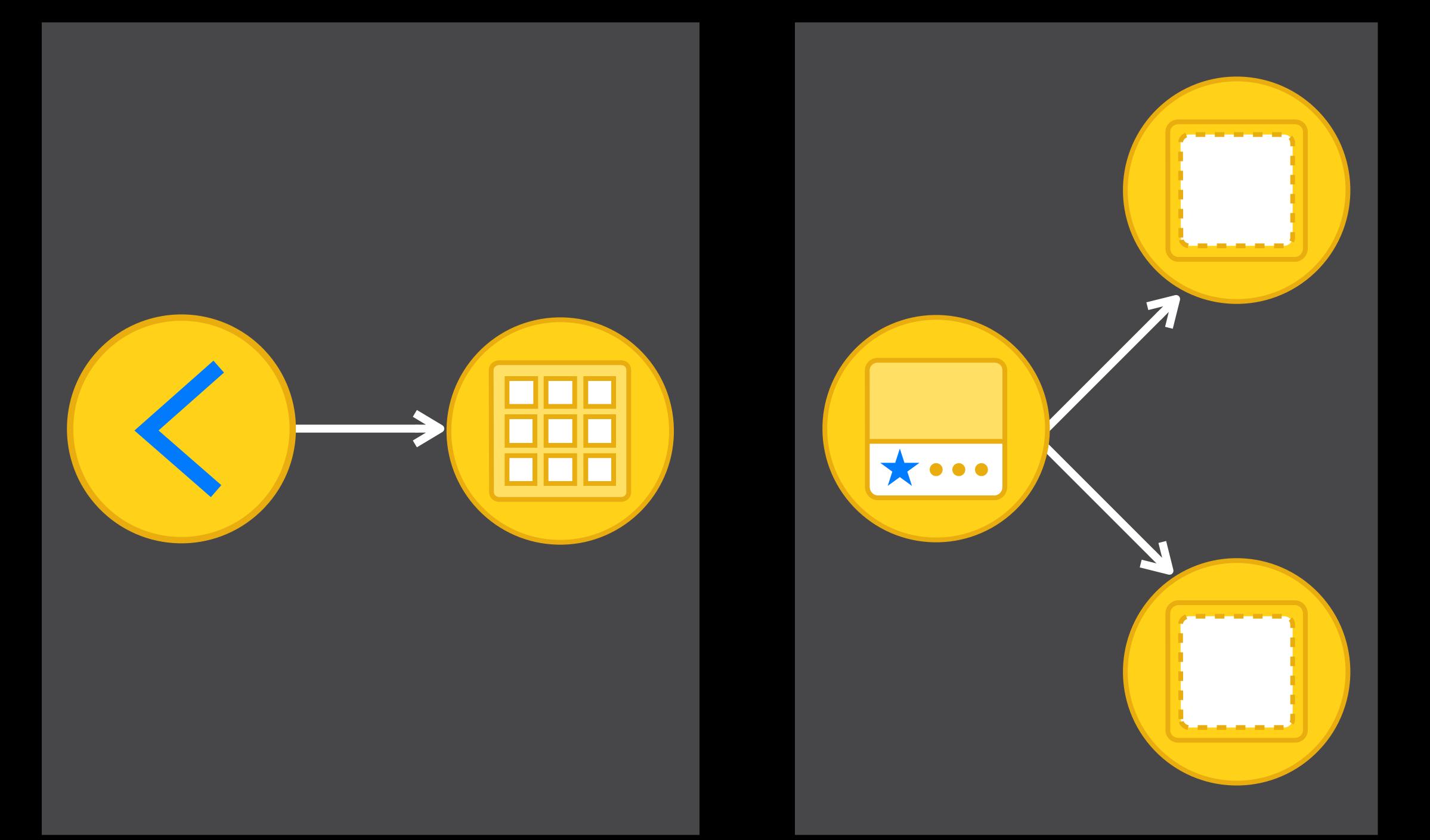


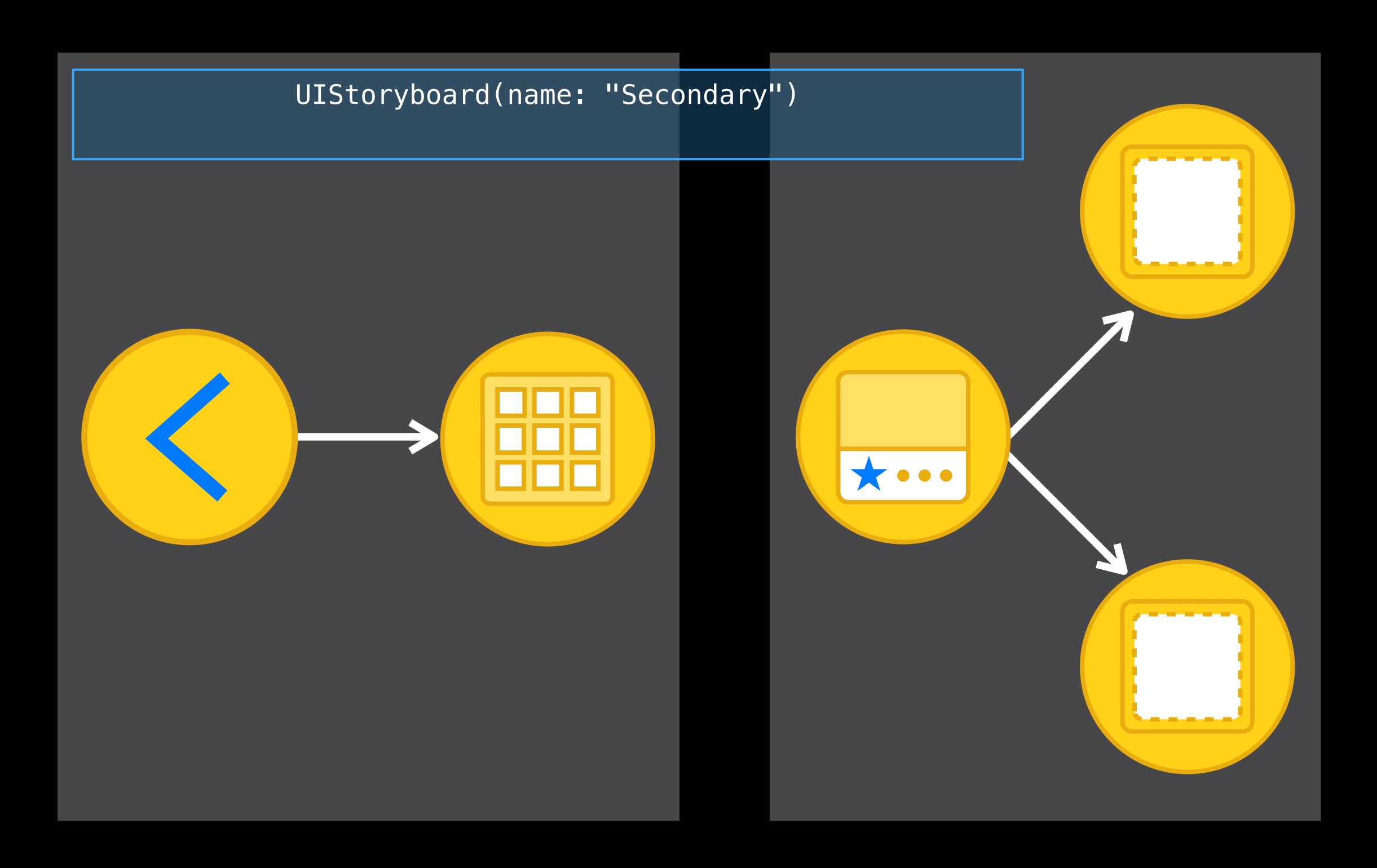


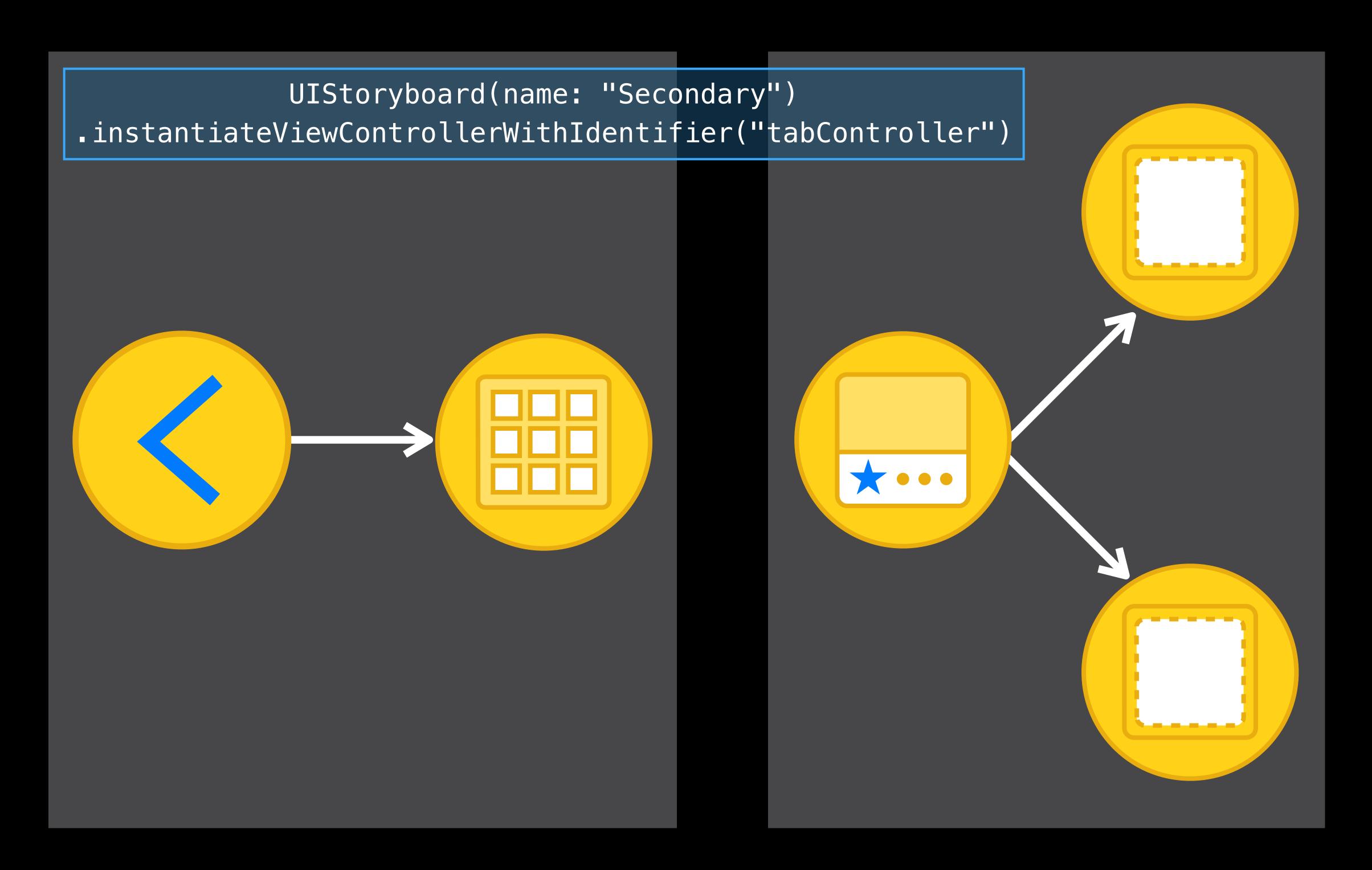


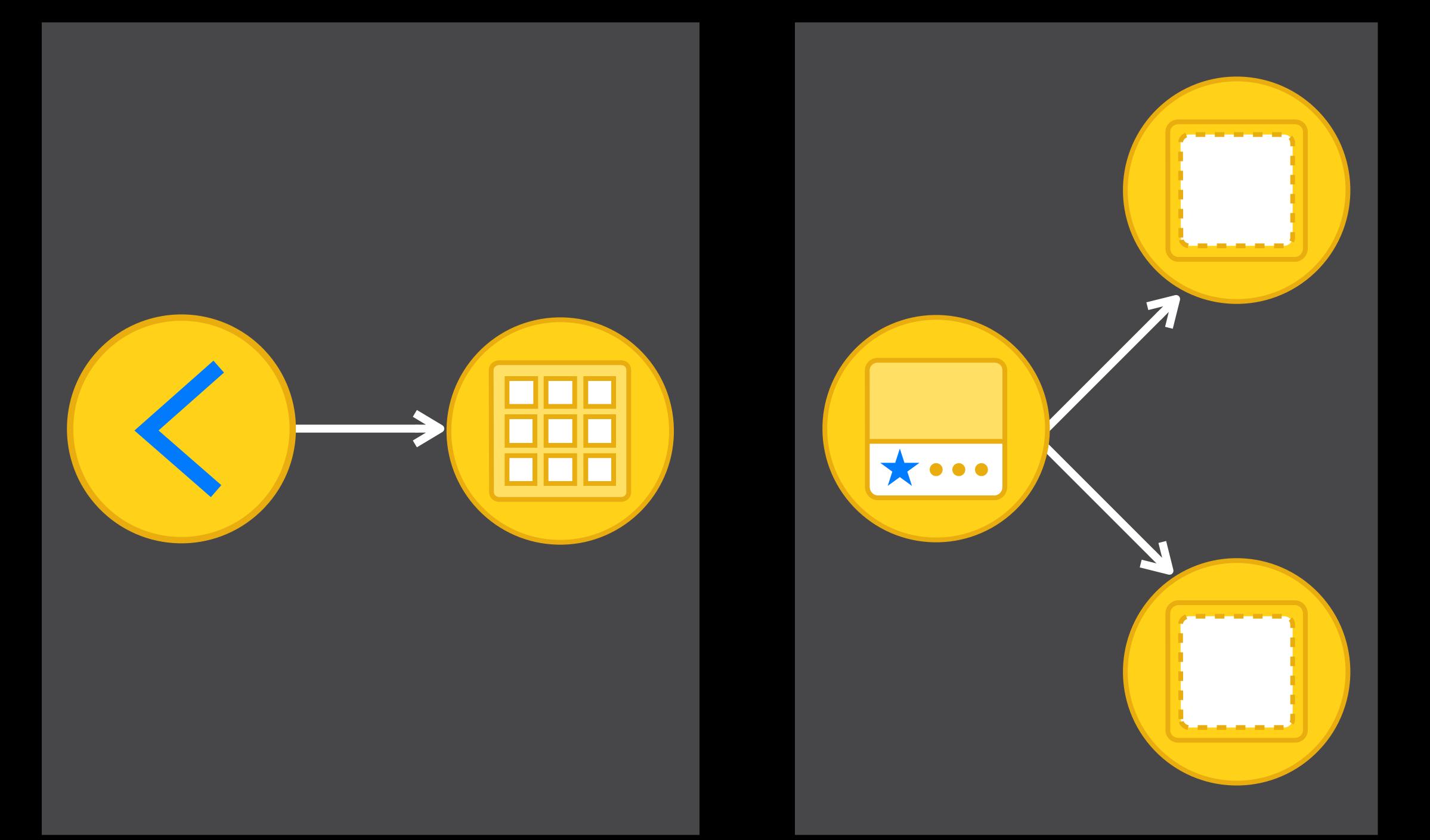


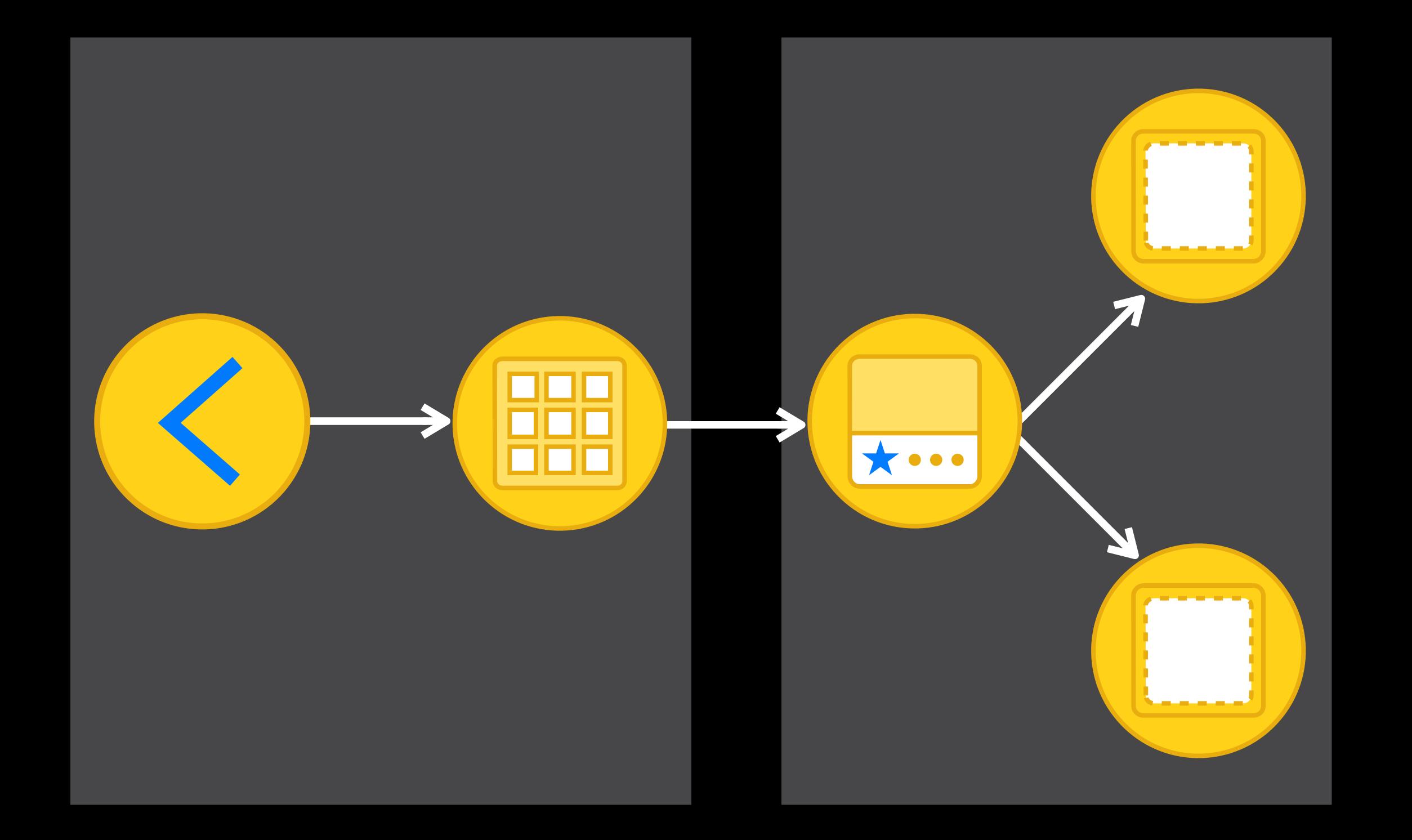












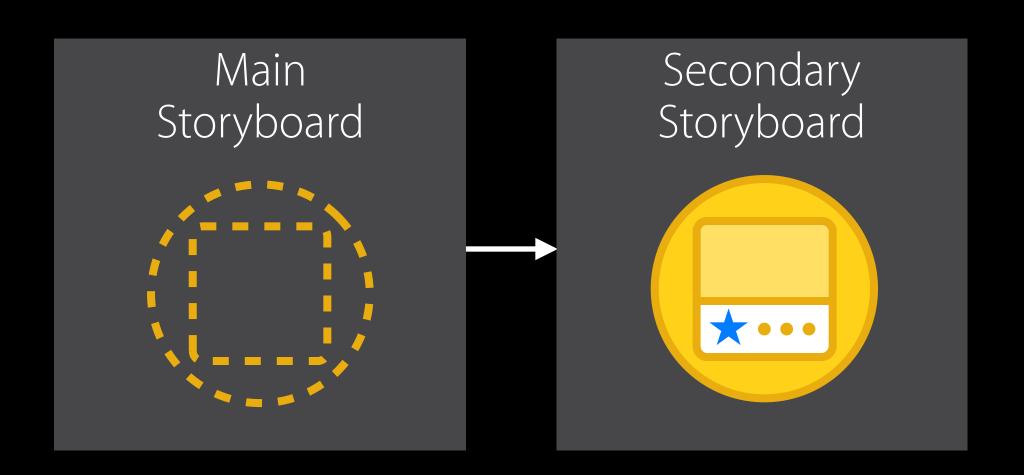
Storyboard References



Stands in for another scene

Can be destination of Relationship or Triggered Segue

Reference can be in same storyboard or another storyboard

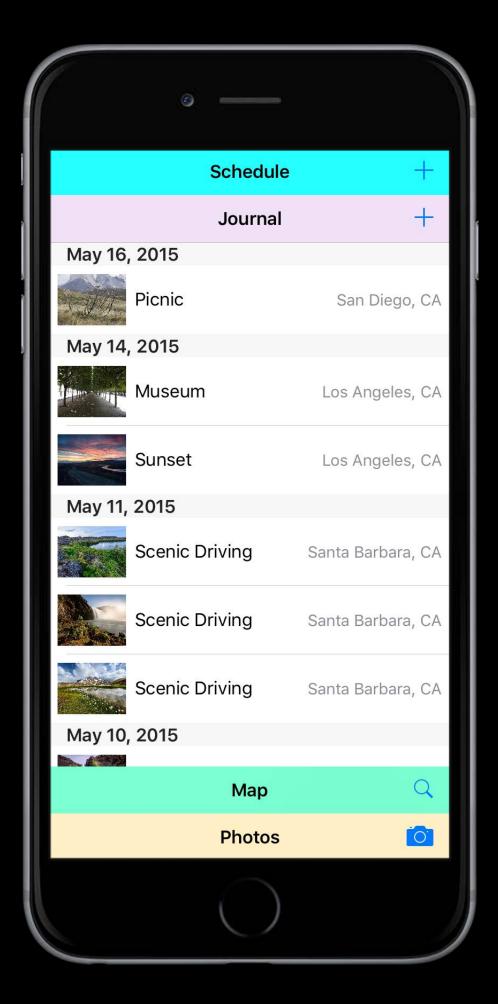


Demo

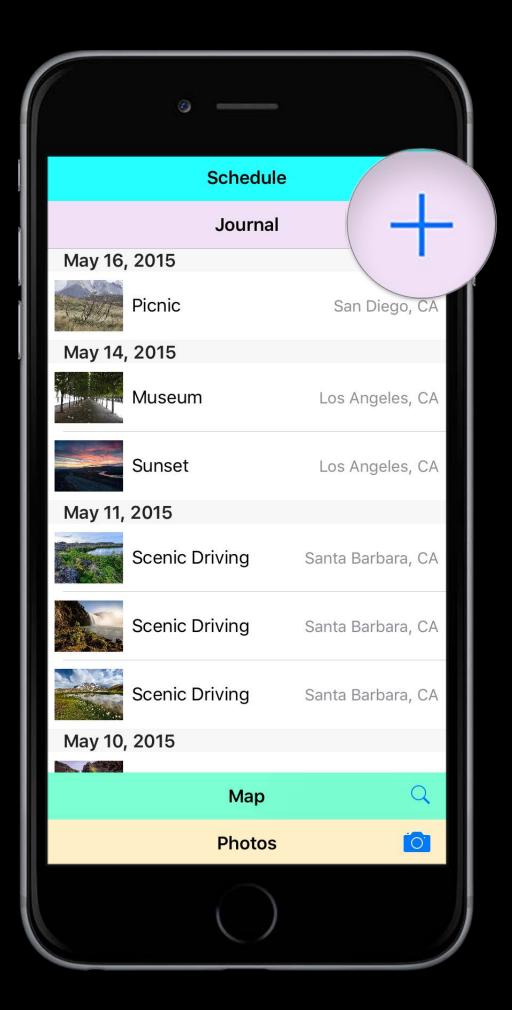
Using storyboard references

Customizing Standard Segues









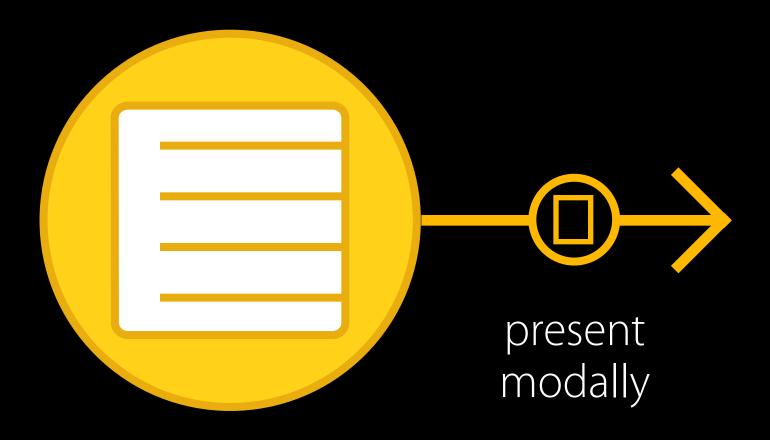
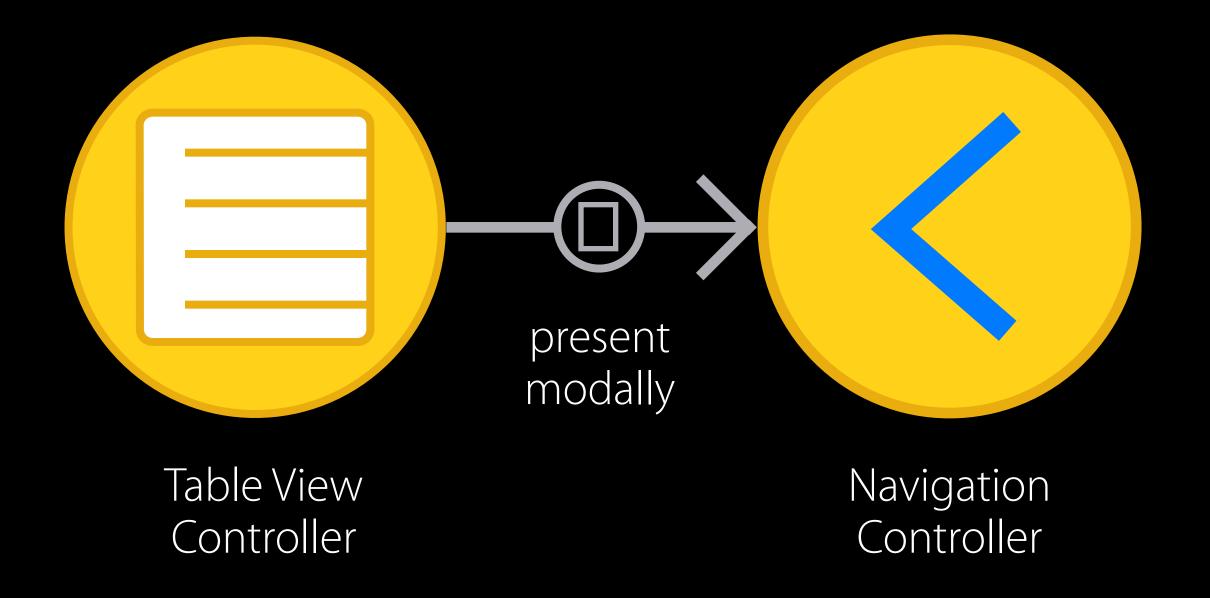
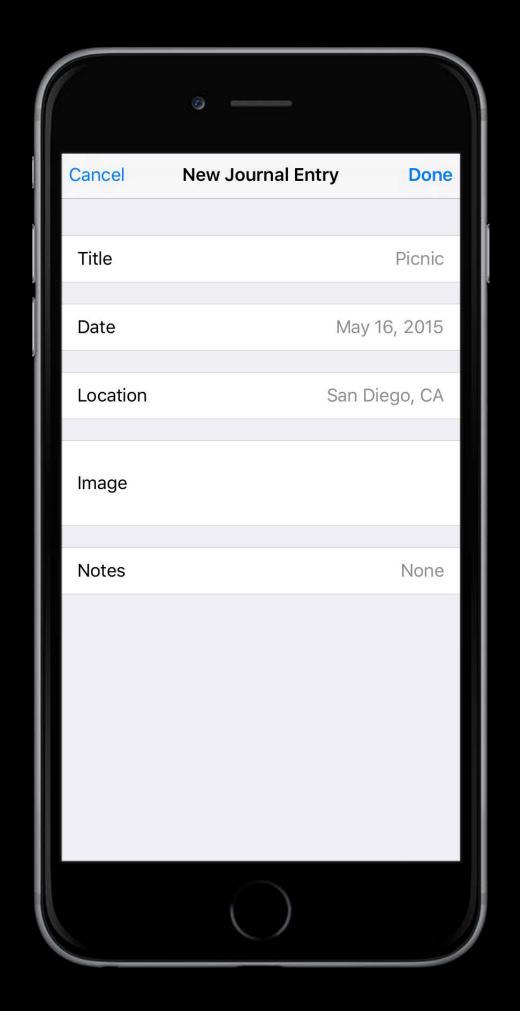


Table View

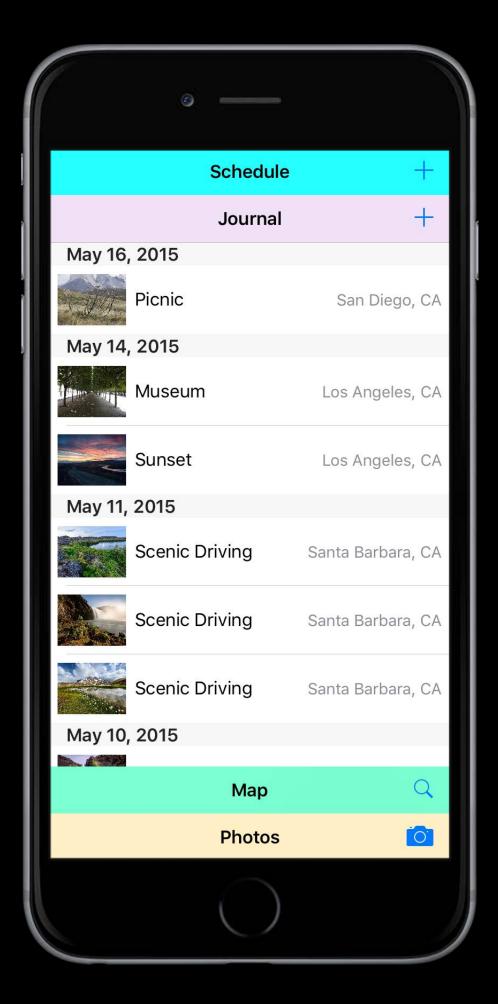
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Schedule Journal May 16, 2015 San Diego, CA May 14, 2015 Los Angeles, CA Los Angeles, CA Santa Barbara, CA Scenic Driving Santa Barbara, CA May 10, 2015 Мар Photos

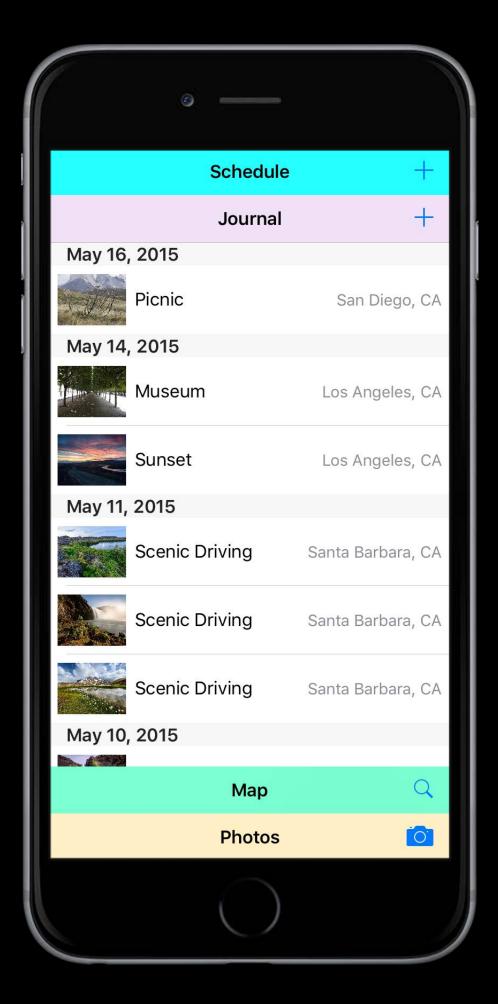












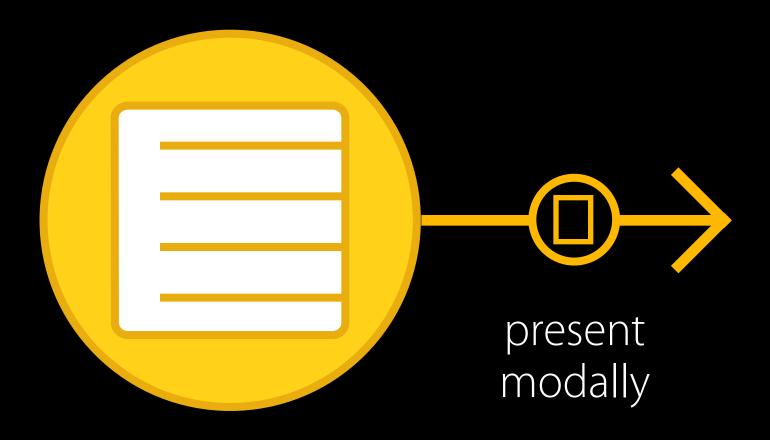
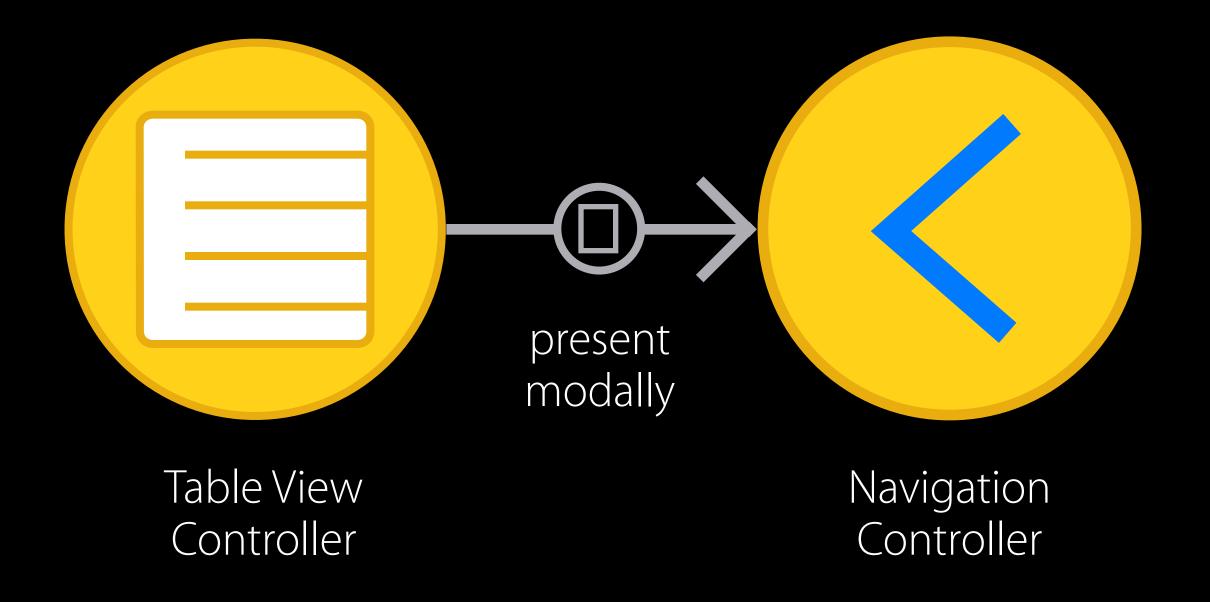
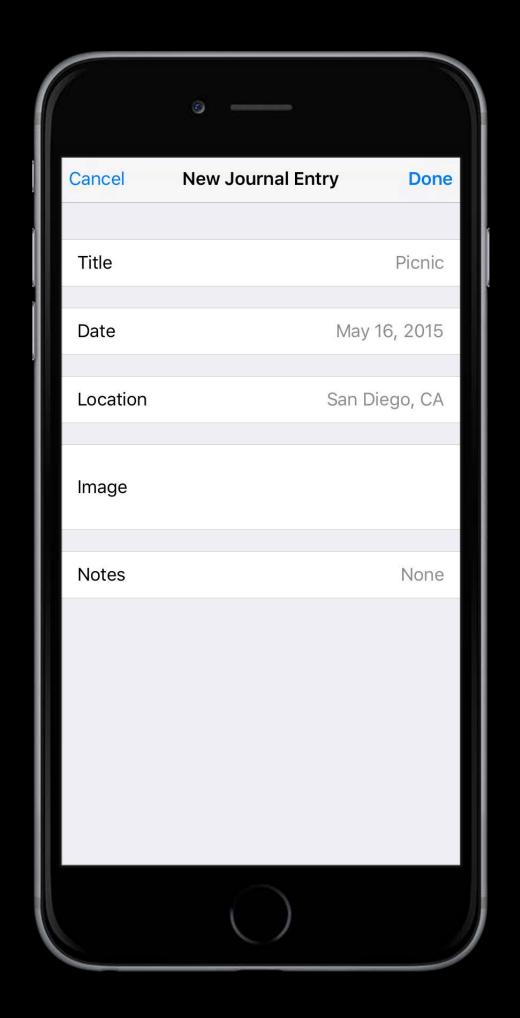


Table View

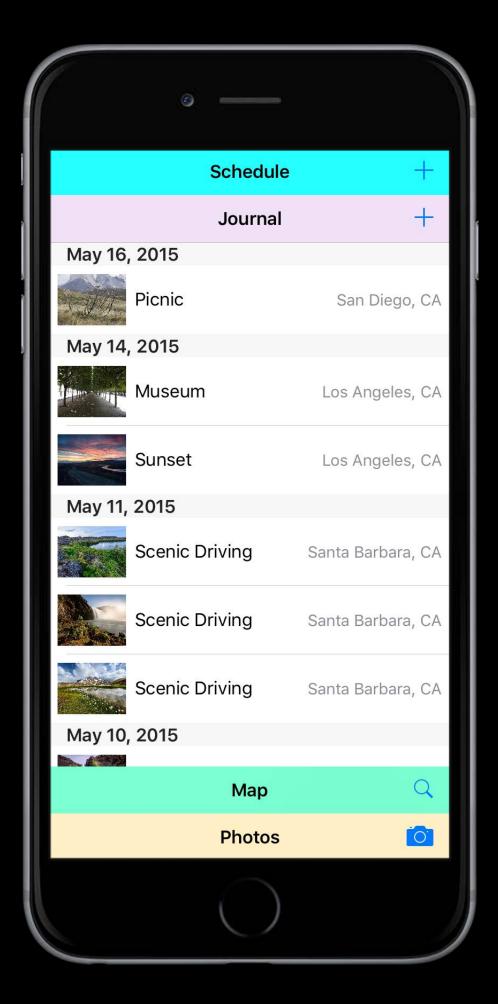
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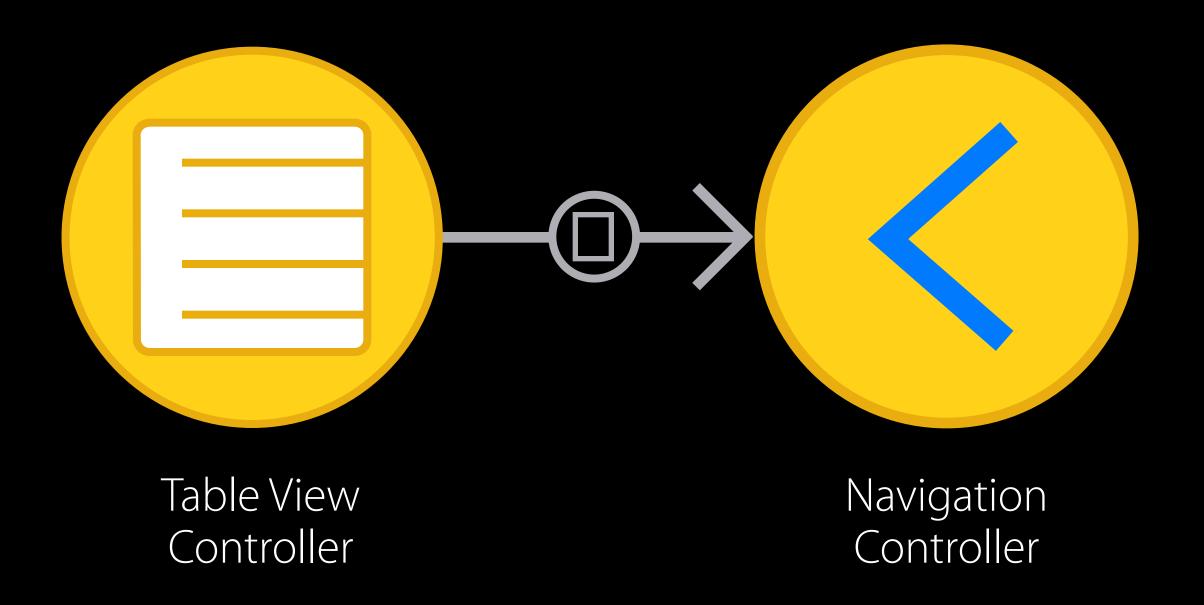
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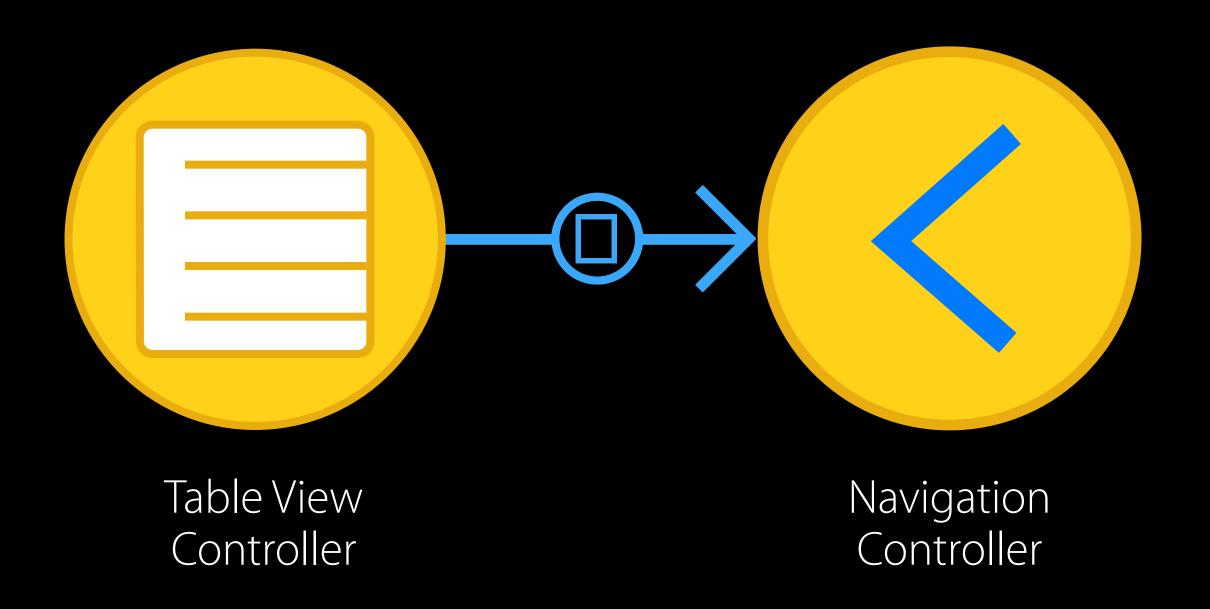


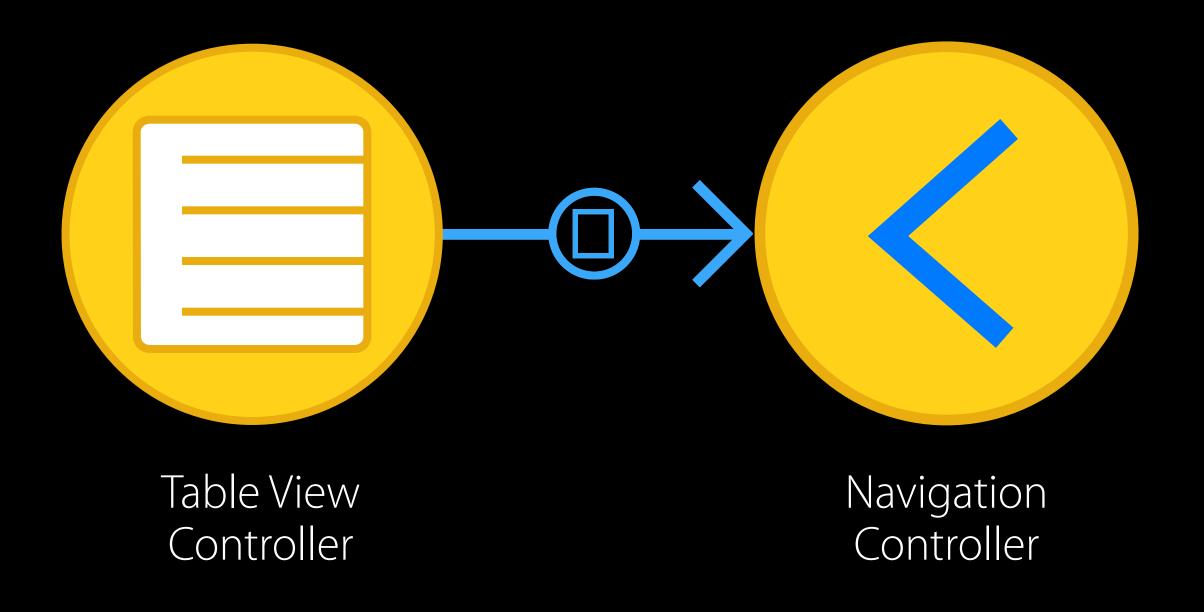


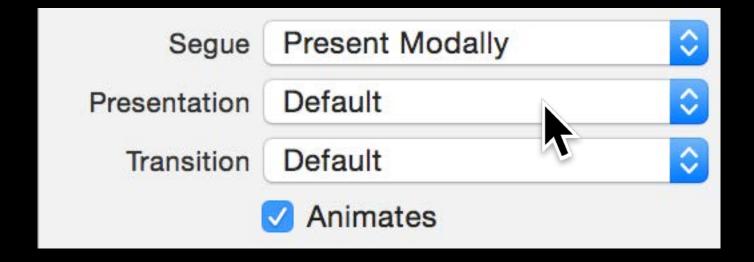


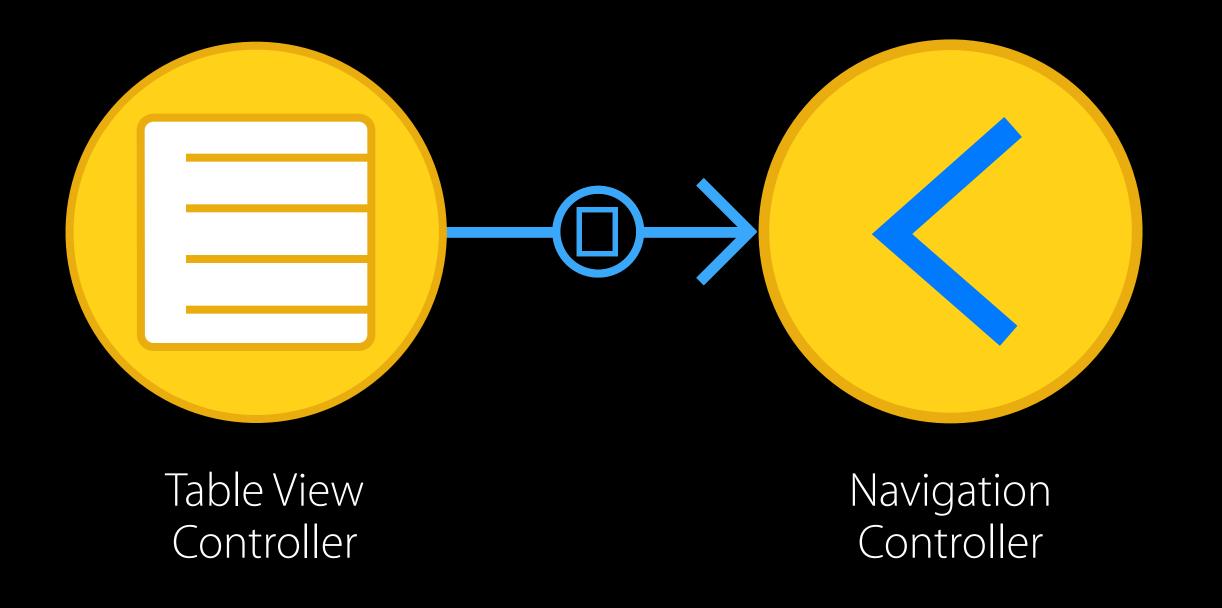


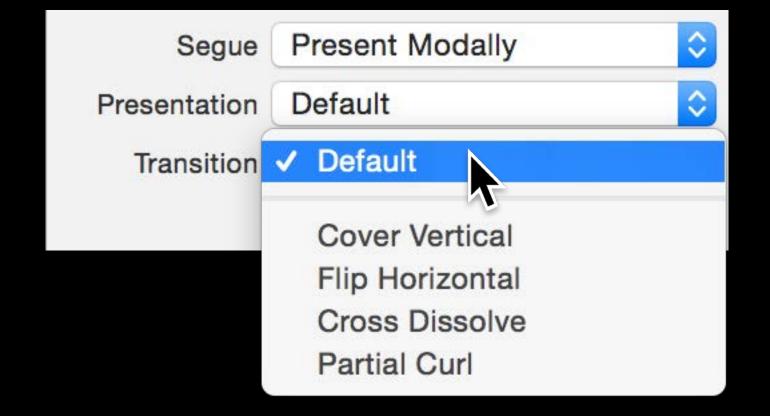


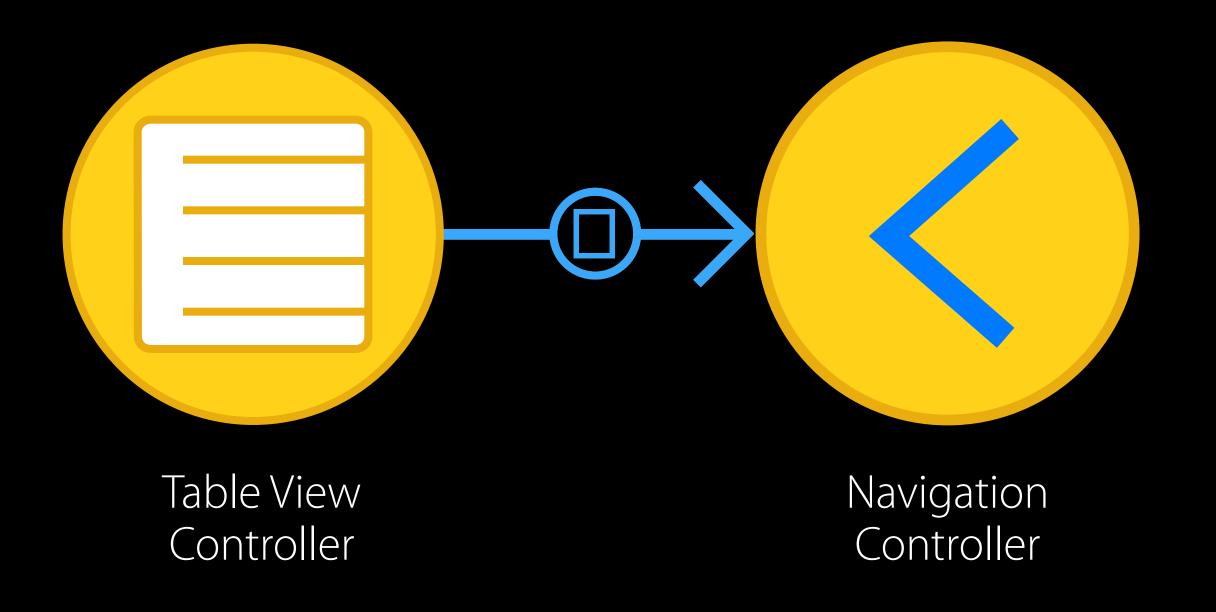


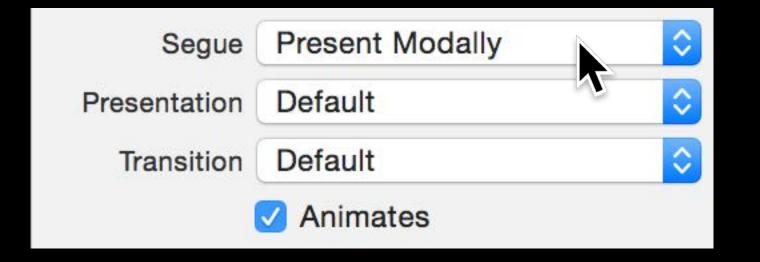


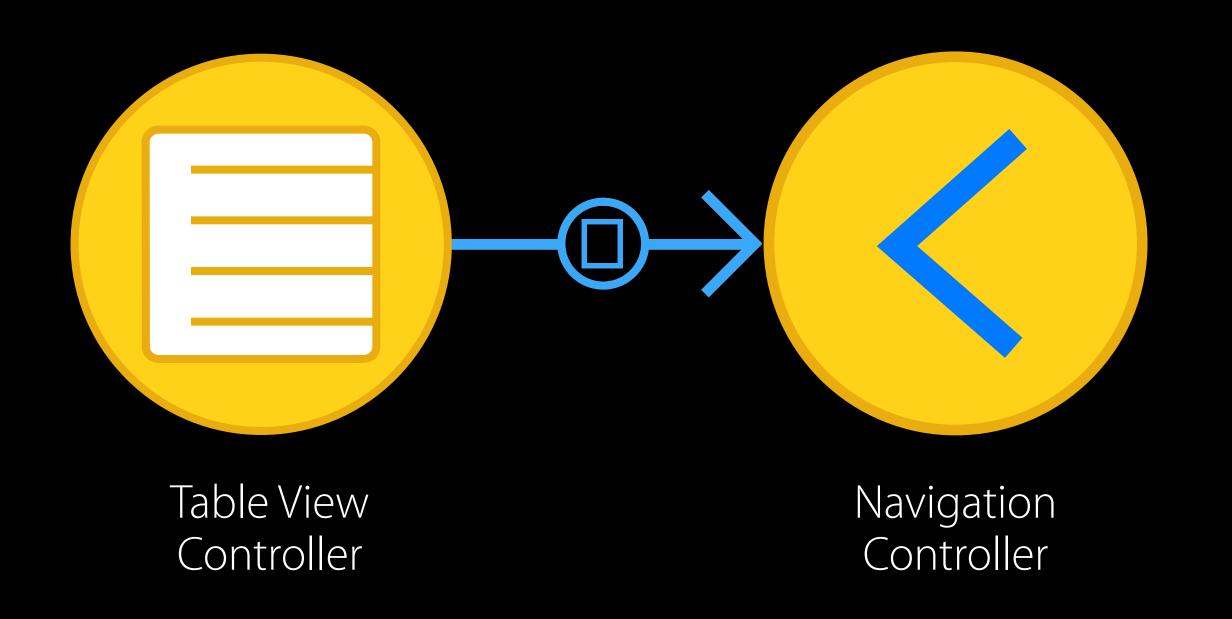


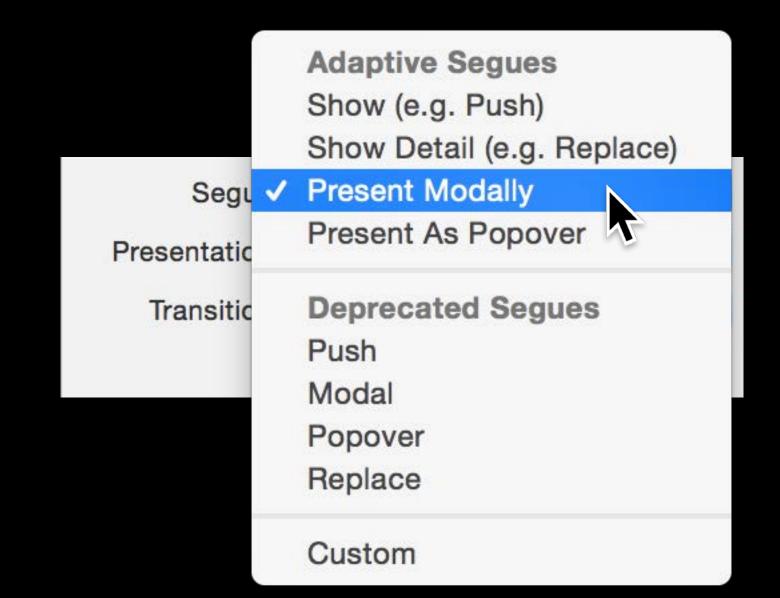


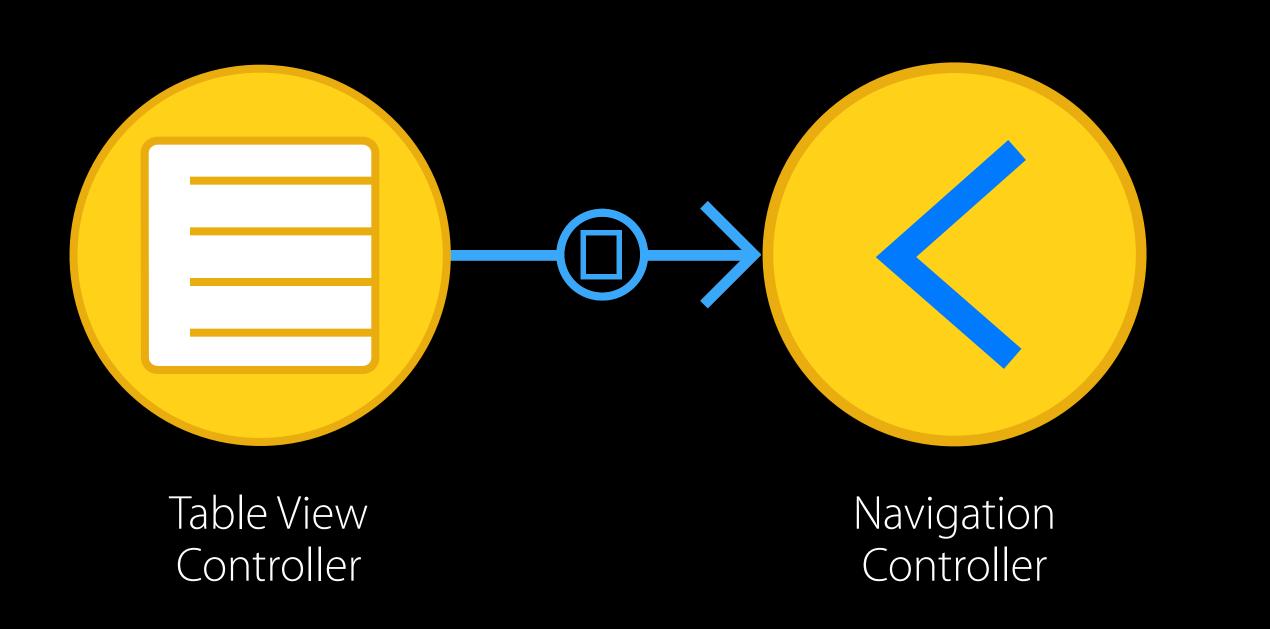


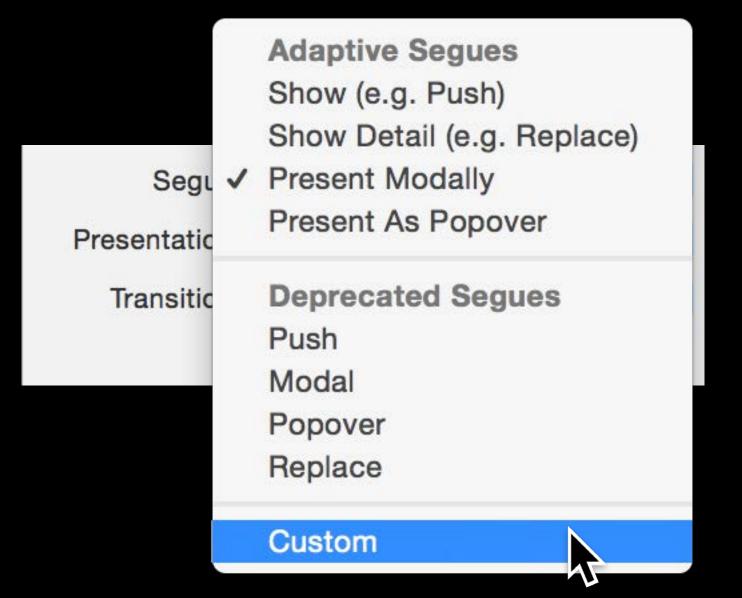


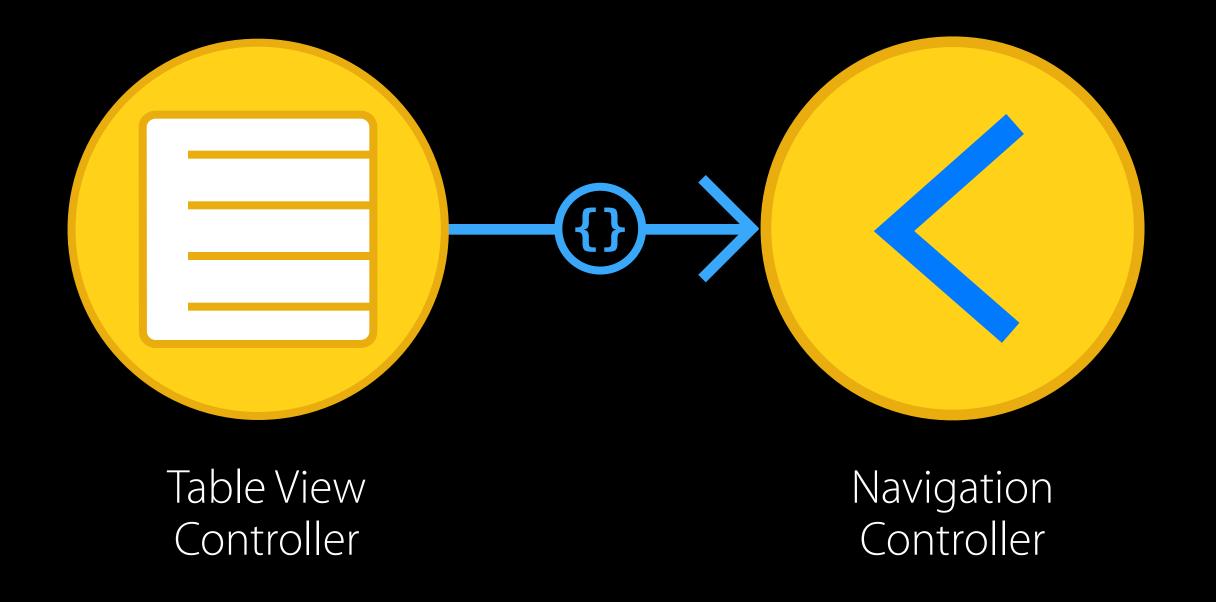












Segue Custom

```
class MySegue: UIStoryboardSegue {
  override func perform() -> () {
    setUpAnimation()

    sourceViewController
    .presentViewController(...)
  }
}
```





Can specify a **UIStoryboardSegue** subclass for any triggered or unwind segue

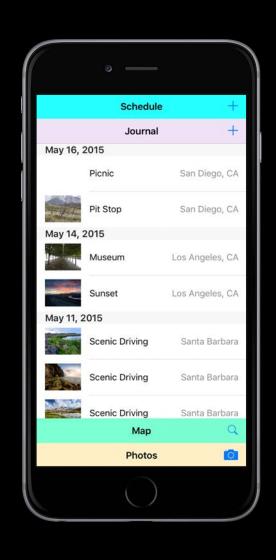
Override perform()

Call super perform () for standard behavior

Present Modally and Popover Presentation segues retained throughout presentation

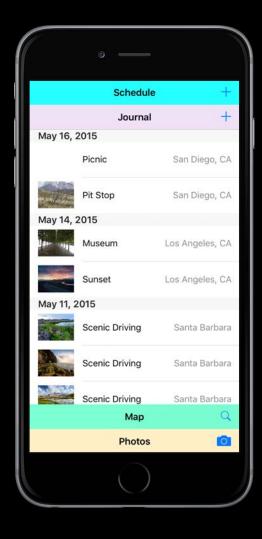
Storyboard Segue		
Identifier		
Segue Class	MyCustomizedSegue •	Y
Segue Module	None	~
Segue	Present Modally	\$
Presentation	Default	\$
Transition	Default	\$
	Animates	

Customizing presentation animations



Customizing presentation animations

User triggers segue



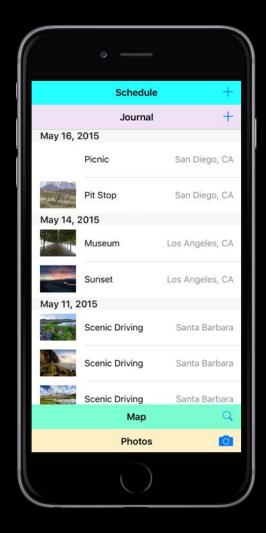


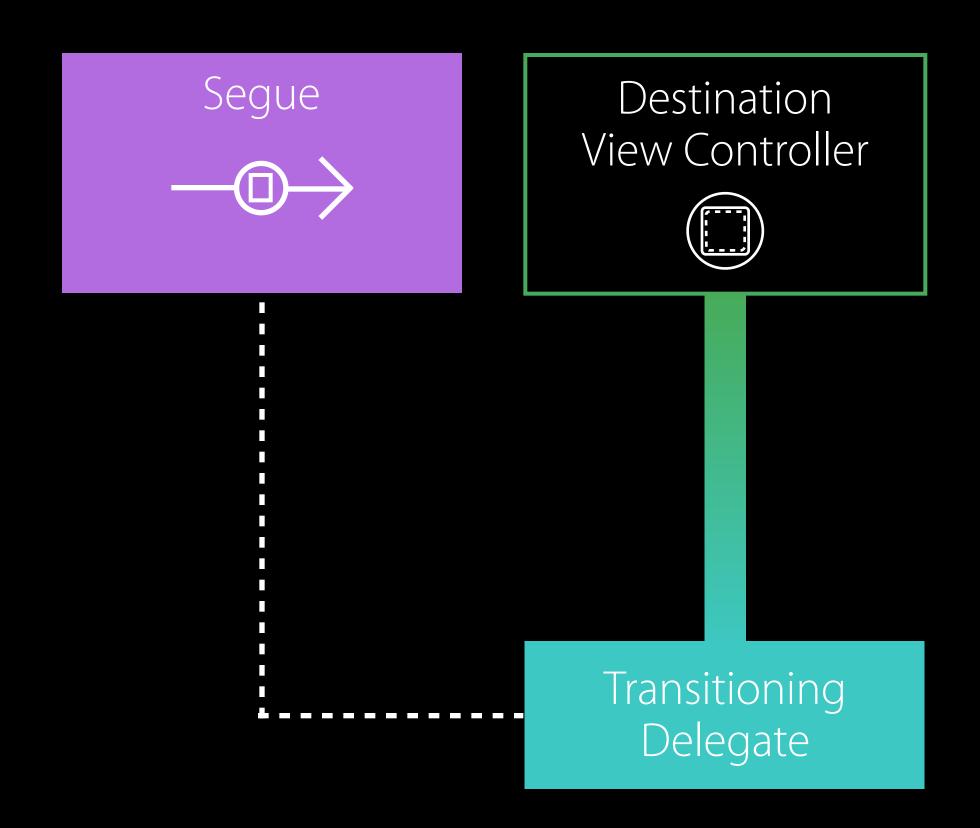
Destination
View Controller

Customizing presentation animations

User triggers segue

Assign transitioning delegate

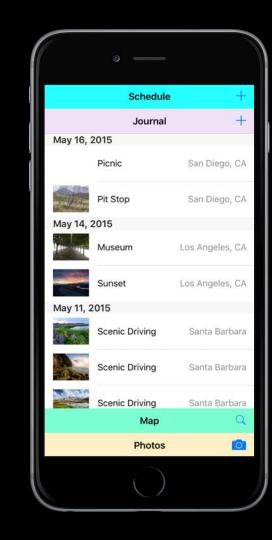


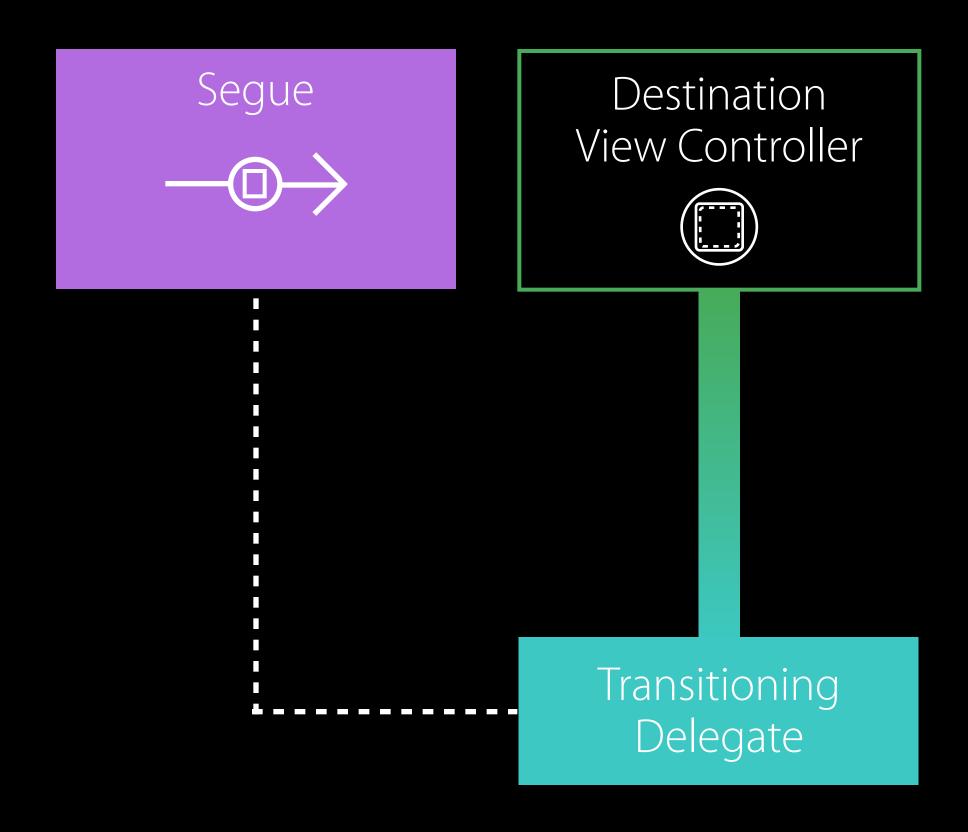


Customizing presentation animations

User triggers segue

- Assign transitioning delegate
- Call super perform() to start modal presentation

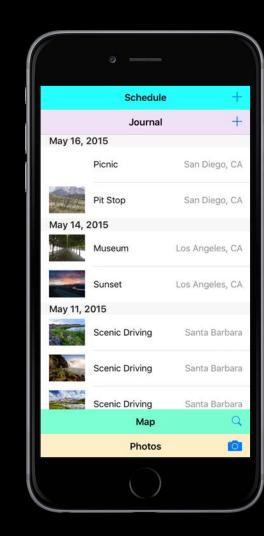


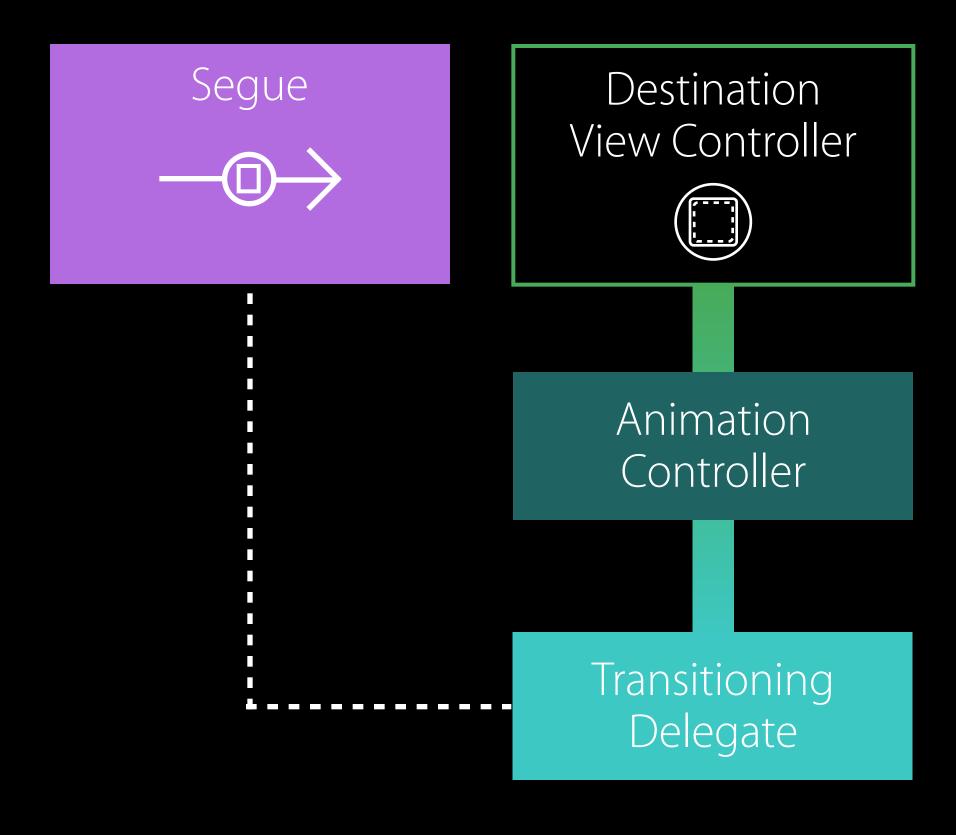


Customizing presentation animations

User triggers segue

- Assign transitioning delegate
- Call super perform() to start modal presentation
- Vend animation controller for presentation



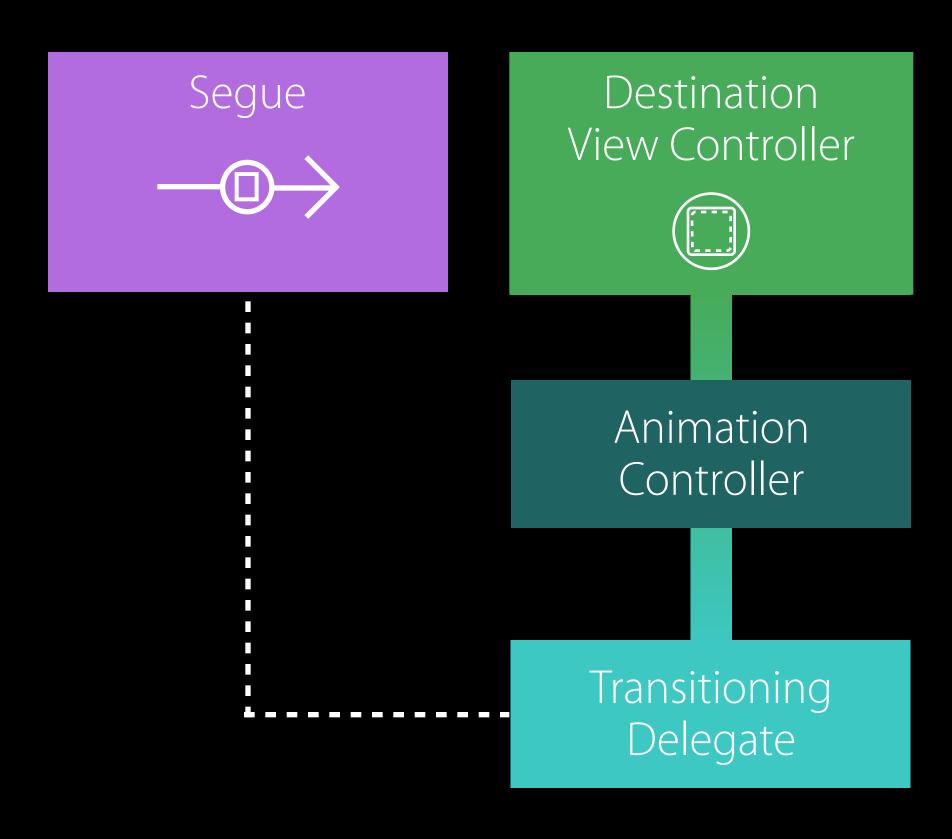


Customizing presentation animations

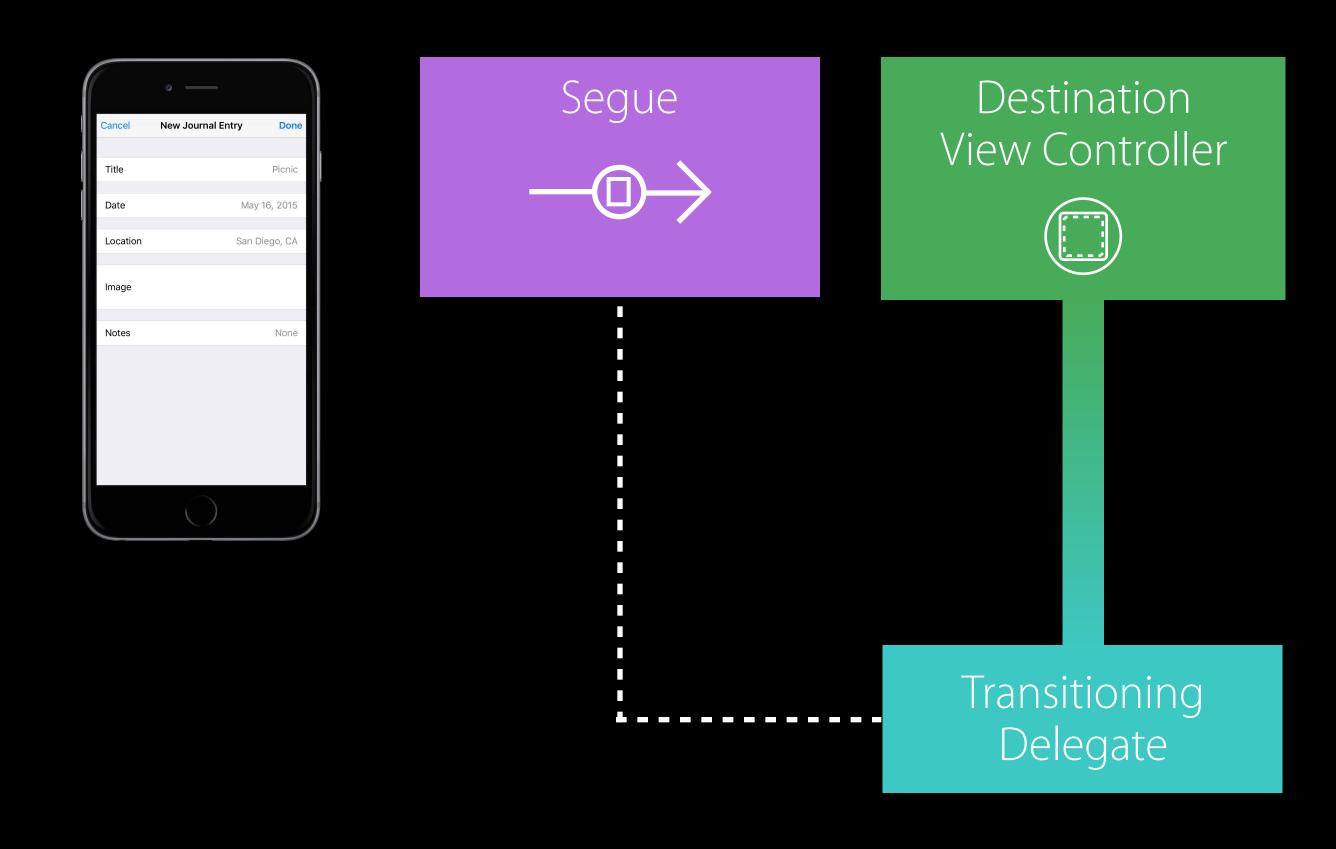
User triggers segue

- Assign transitioning delegate
- Call super perform () to start modal presentation
- Vend animation controller for presentation
- Animate appearance of view controller



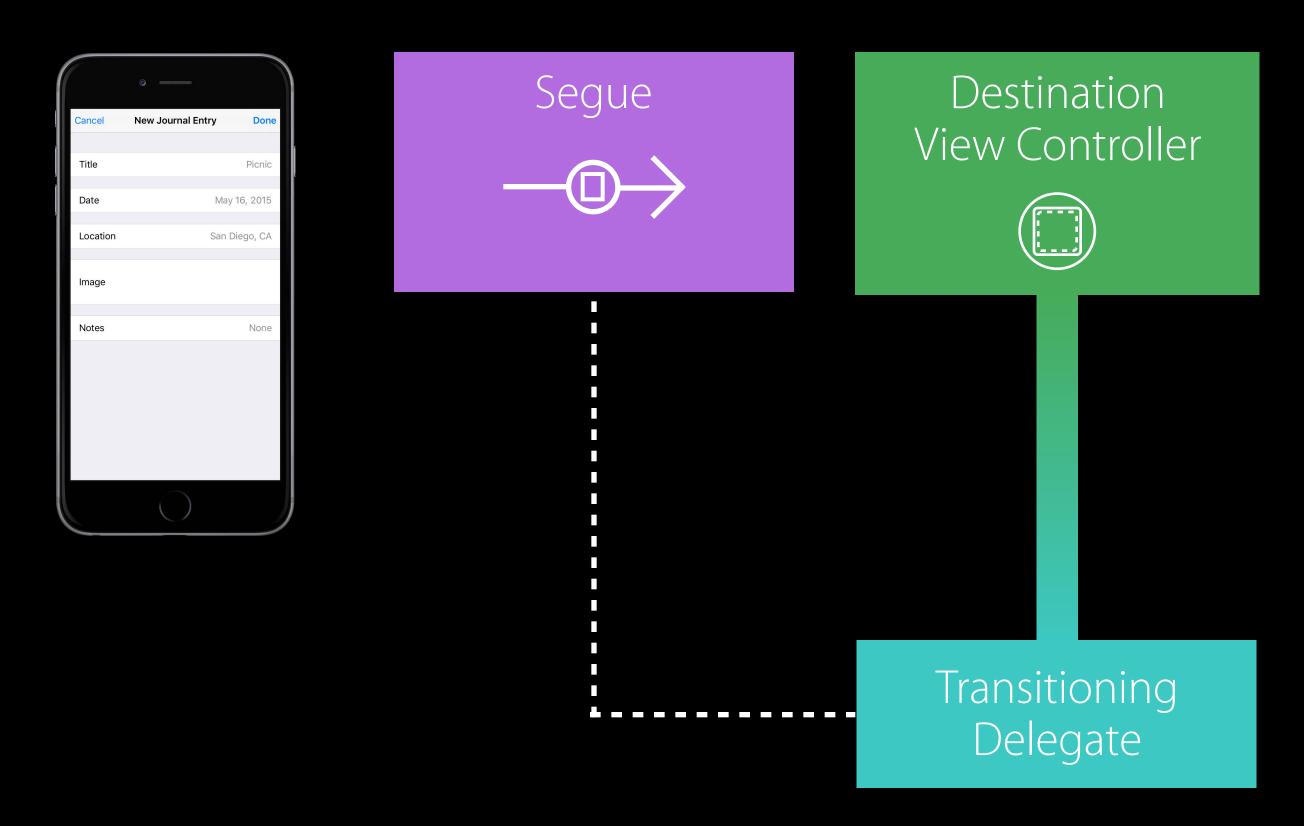


Customizing presentation animations



Customizing presentation animations

User dismisses presentation

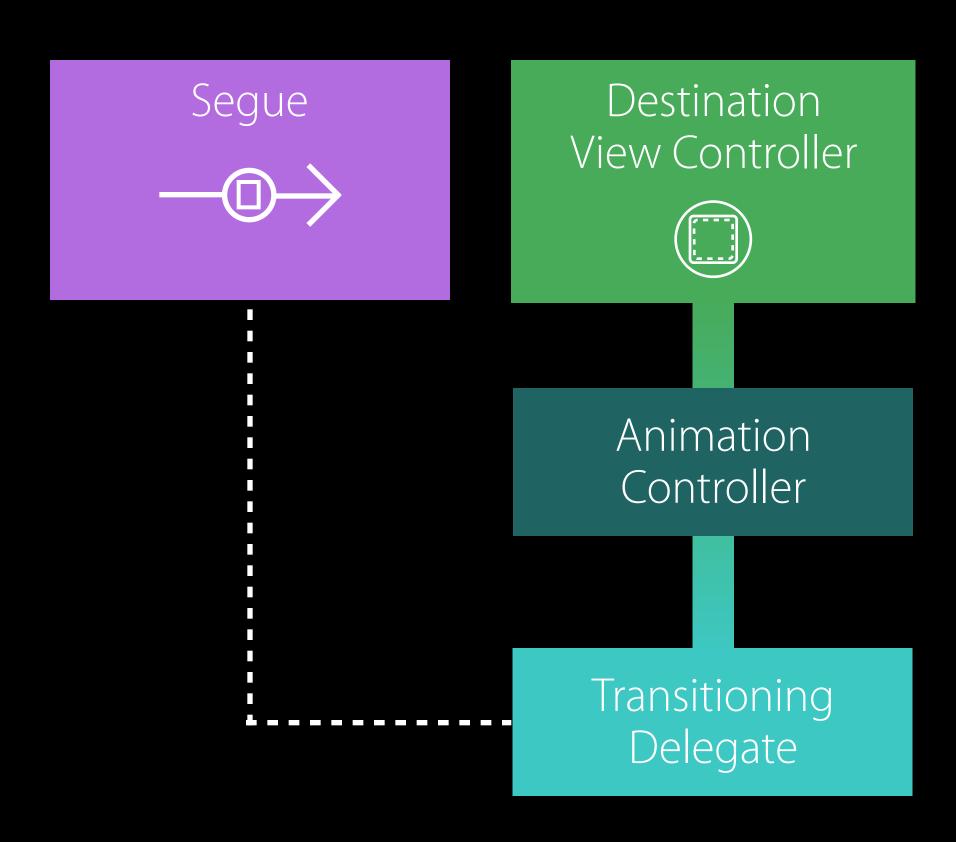


Customizing presentation animations

User dismisses presentation

 Vend animation controller for dismissal

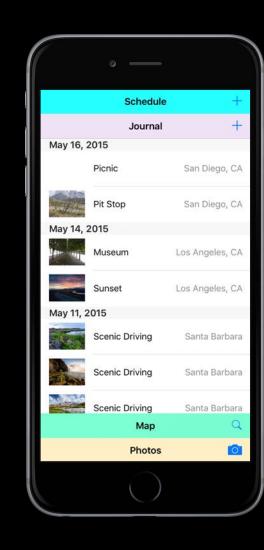


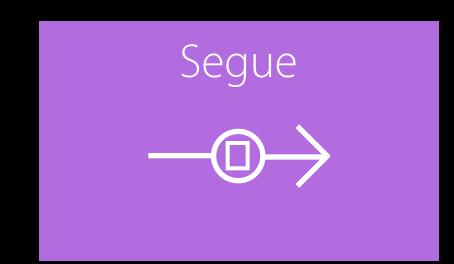


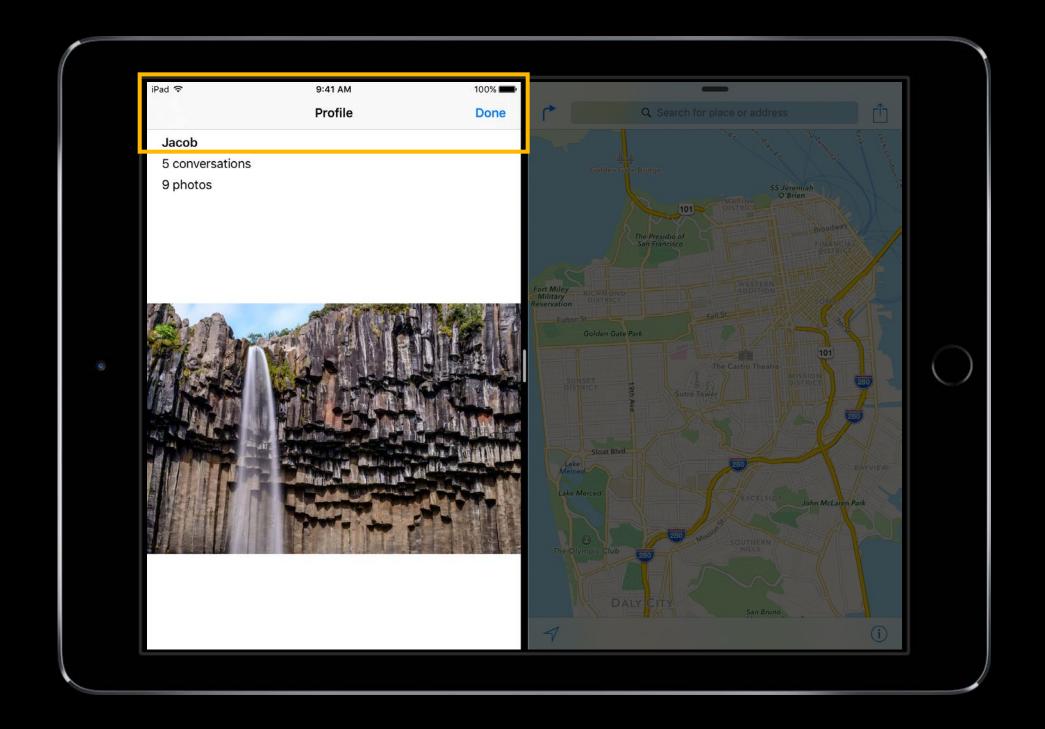
Customizing presentation animations

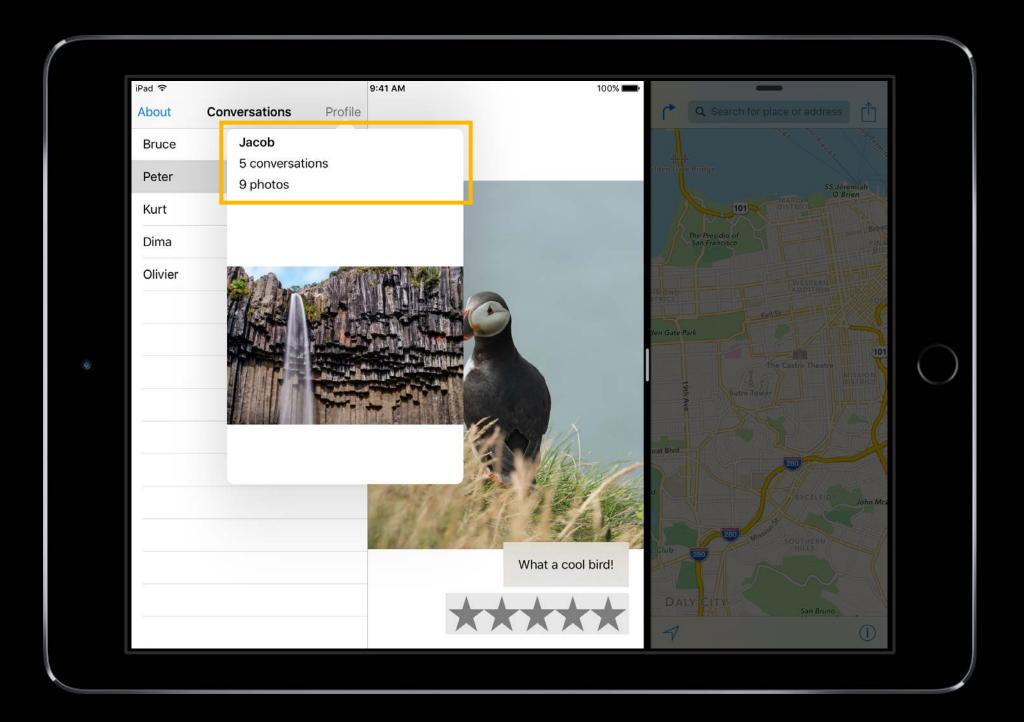
User dismisses presentation

- Vend animation controller for dismissal
- Animate dismissal of view controller









Customizing adaptive presentations



Destination View Controller



Presentation Controller

Customizing adaptive presentations

User triggers segue



Destination View Controller

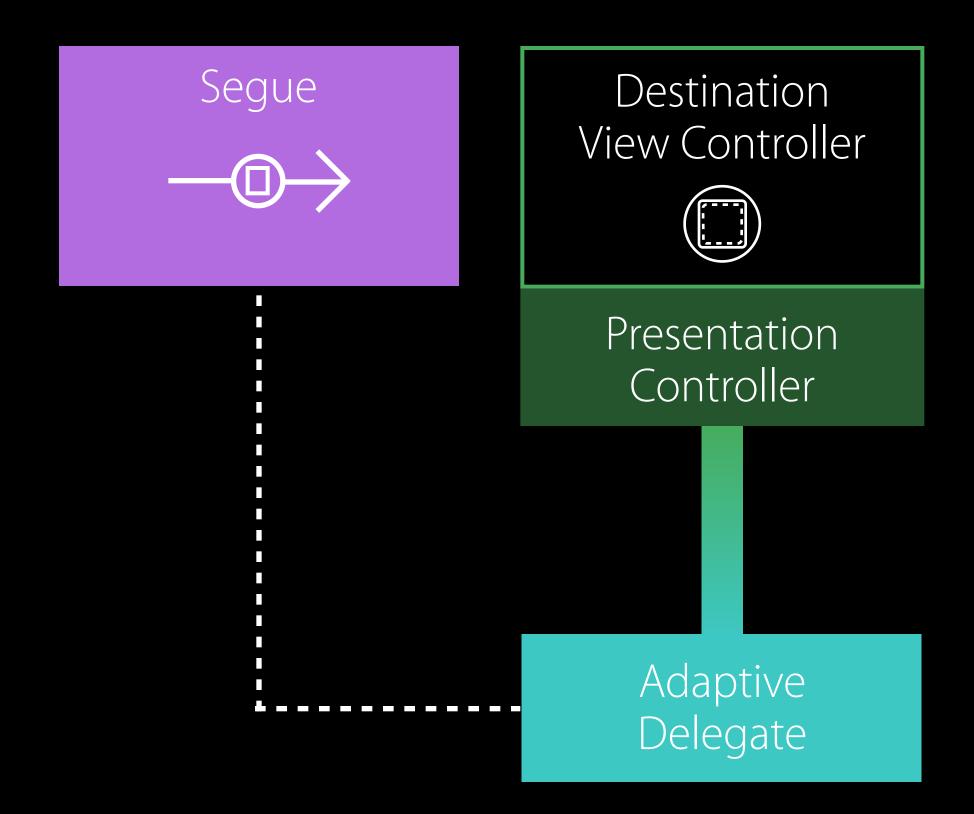


Presentation Controller

Customizing adaptive presentations

User triggers segue

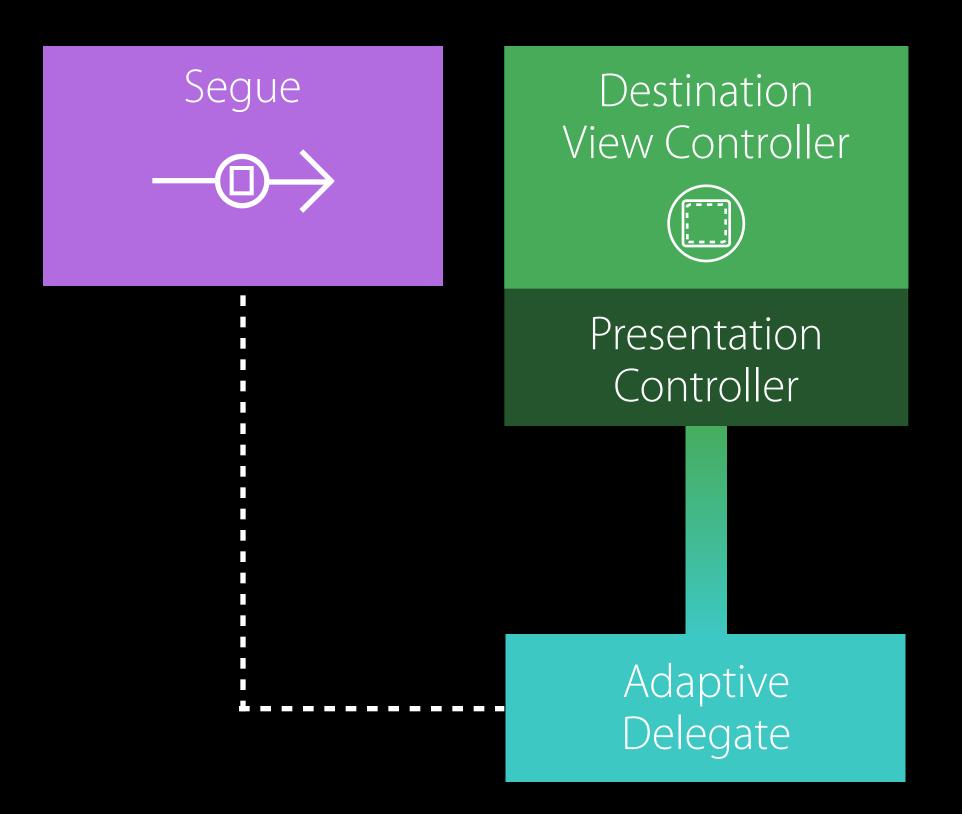
Assign delegate to presentation controller



Customizing adaptive presentations

User triggers segue

- Assign delegate to presentation controller
- Call super perform () to perform modal presentation

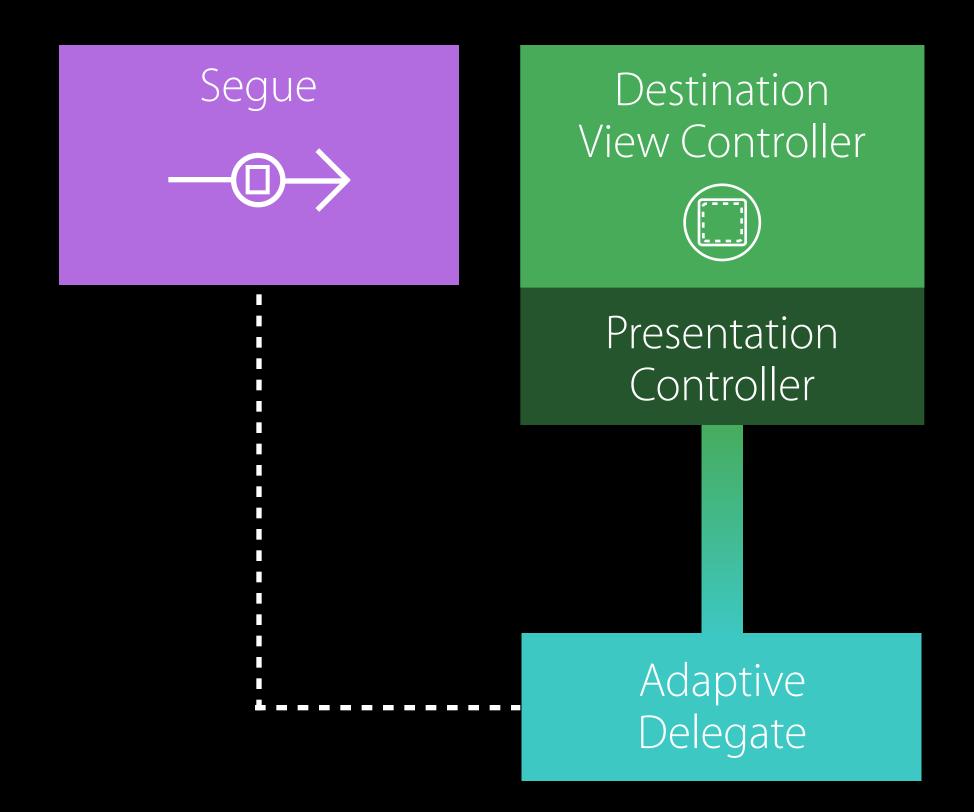


Customizing adaptive presentations

User triggers segue

- Assign delegate to presentation controller
- Call super perform () to perform modal presentation

Size class changes



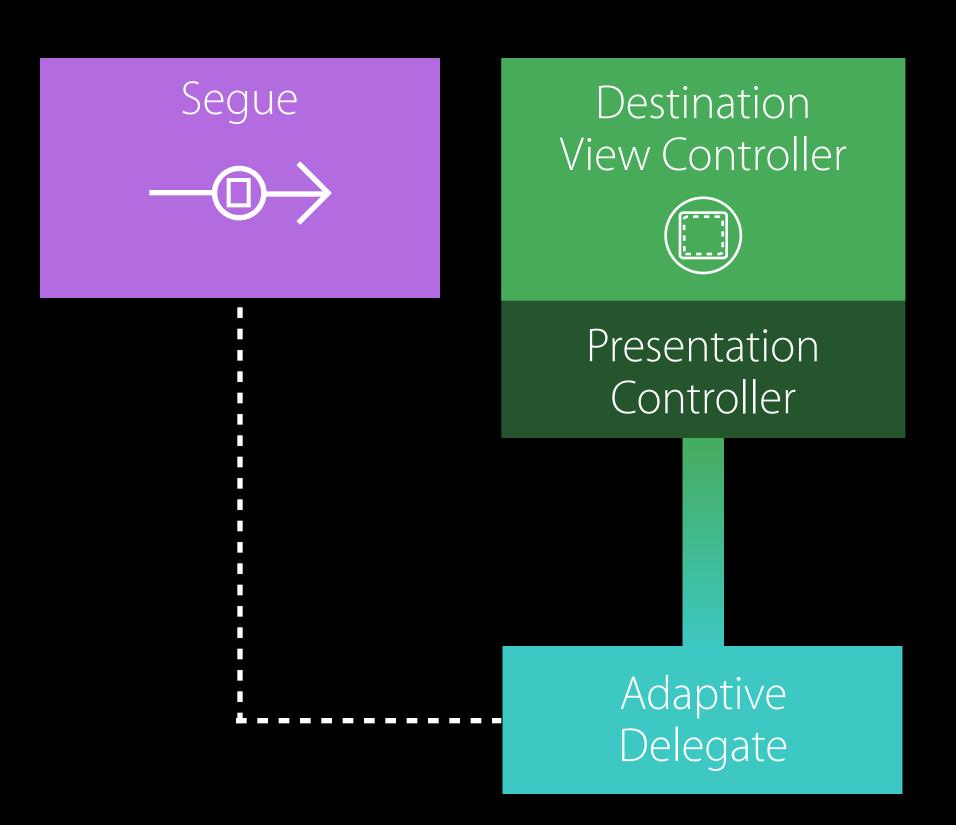
Customizing adaptive presentations

User triggers segue

- Assign delegate to presentation controller
- Call super perform () to perform modal presentation

Size class changes

Presentation controller informs delegate



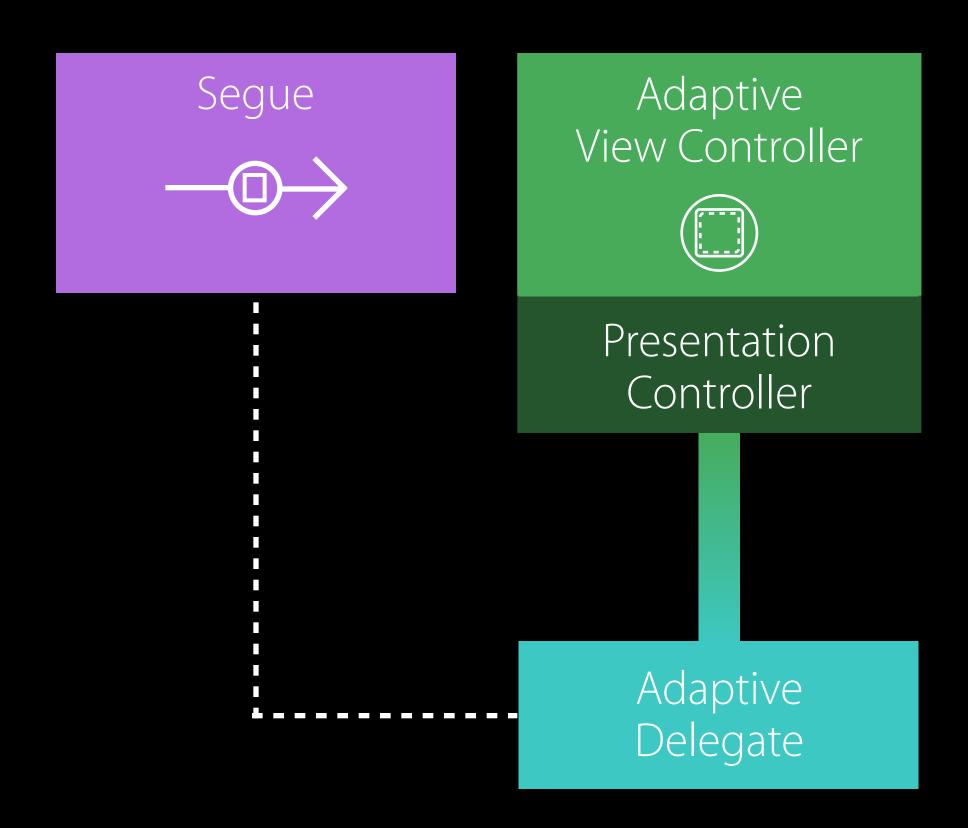
Customizing adaptive presentations

User triggers segue

- Assign delegate to presentation controller
- Call super perform () to perform modal presentation

Size class changes

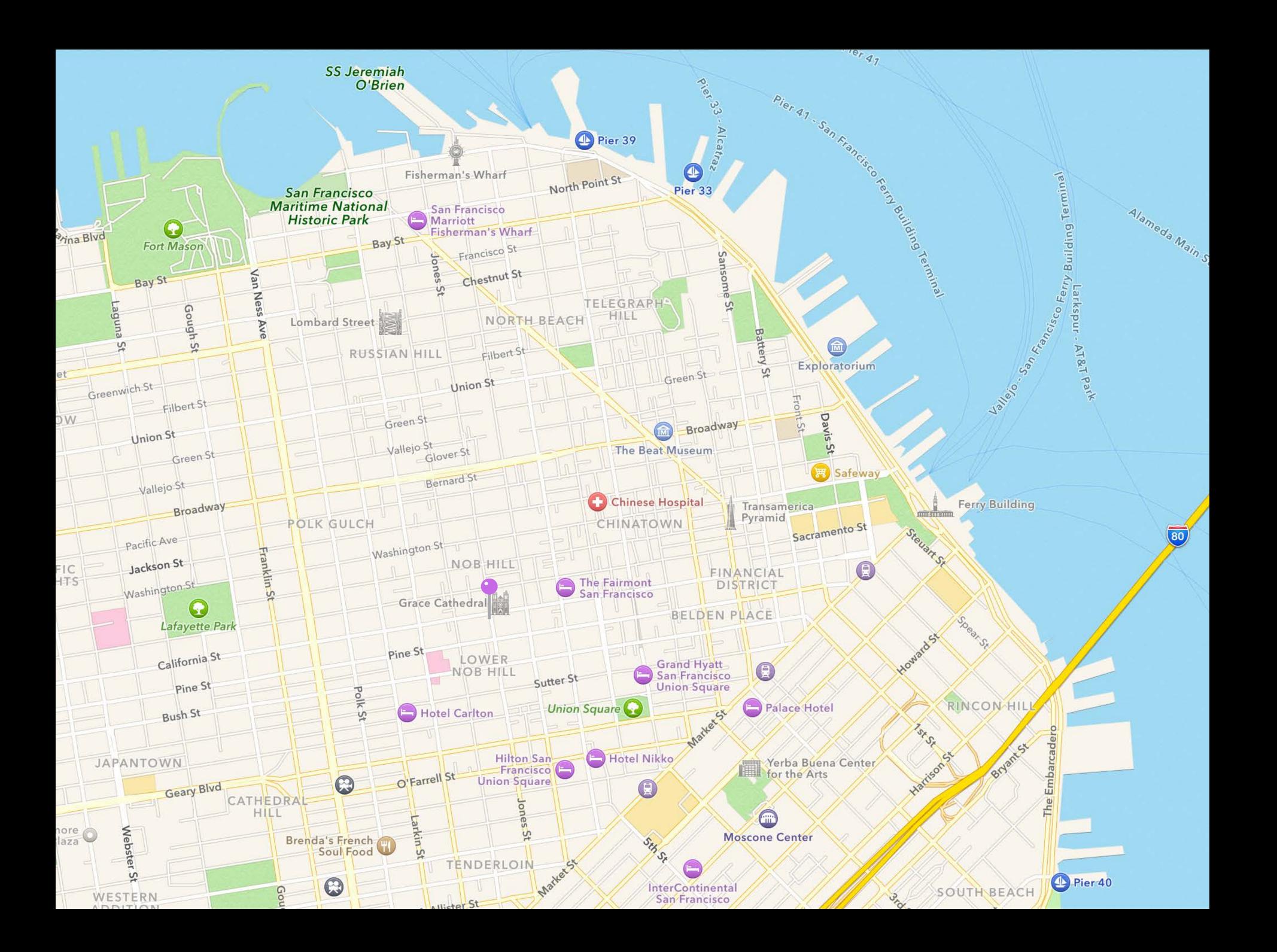
- Presentation controller informs delegate
- Delegate vends new view controller

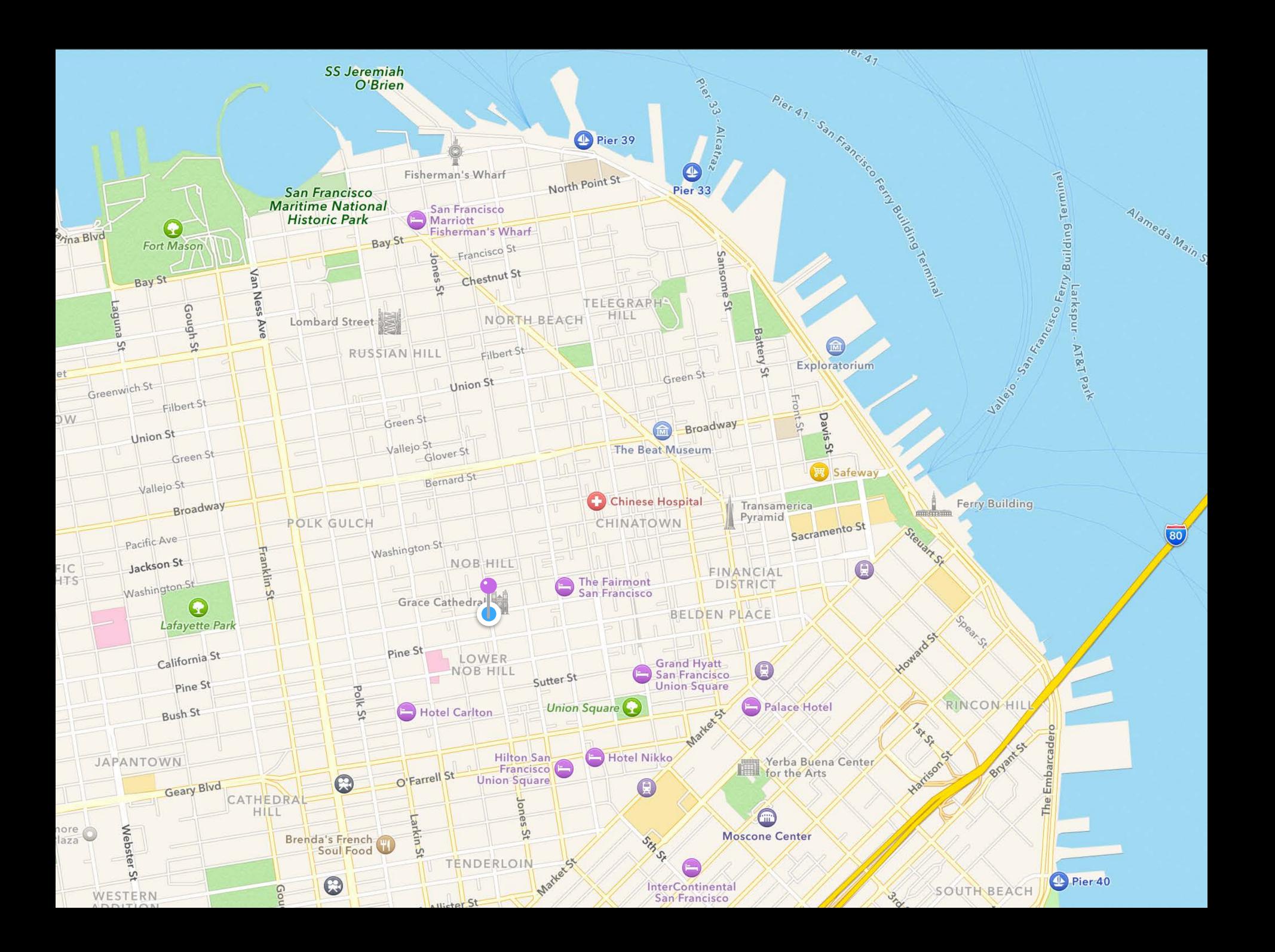


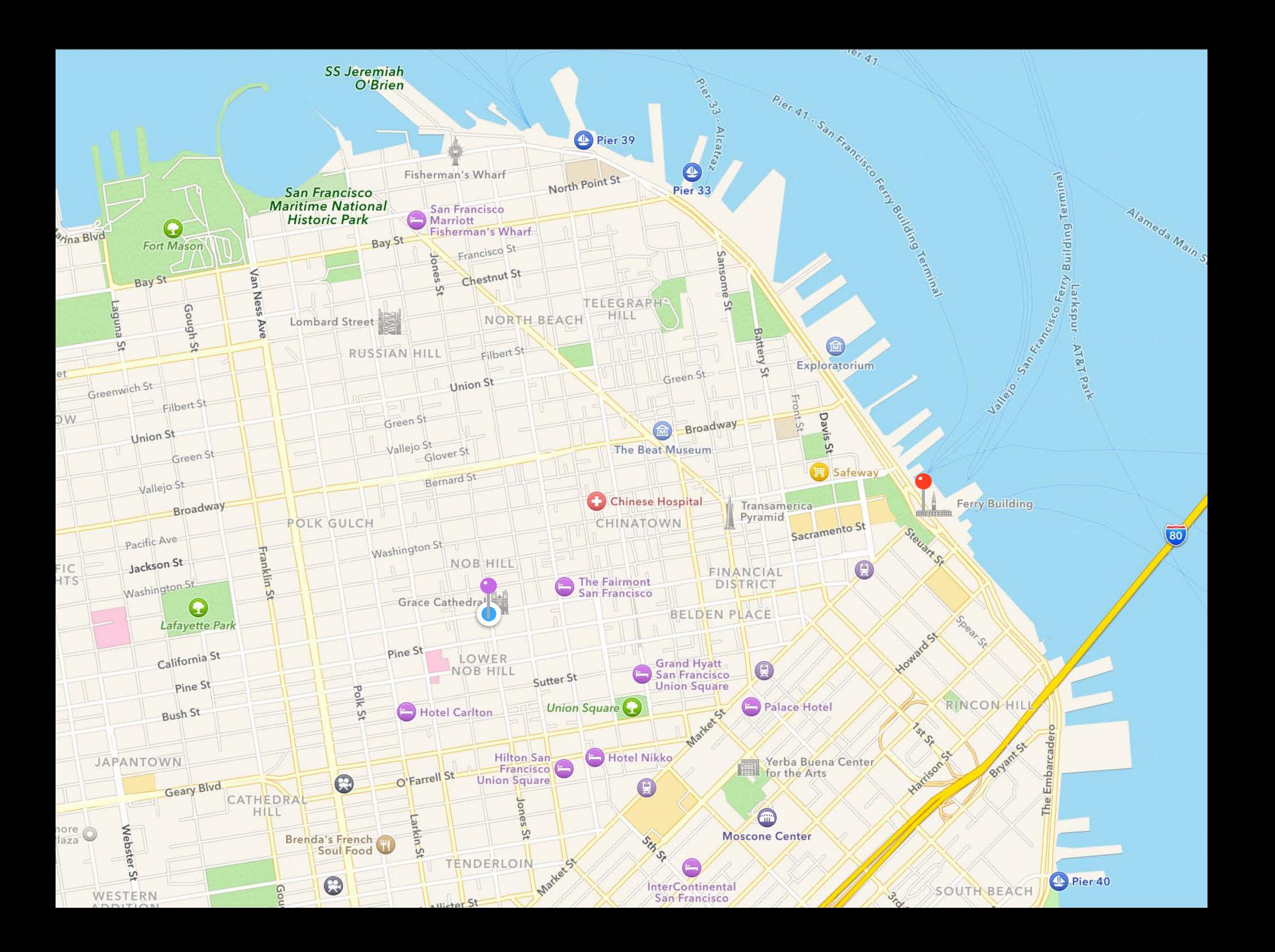
Demo

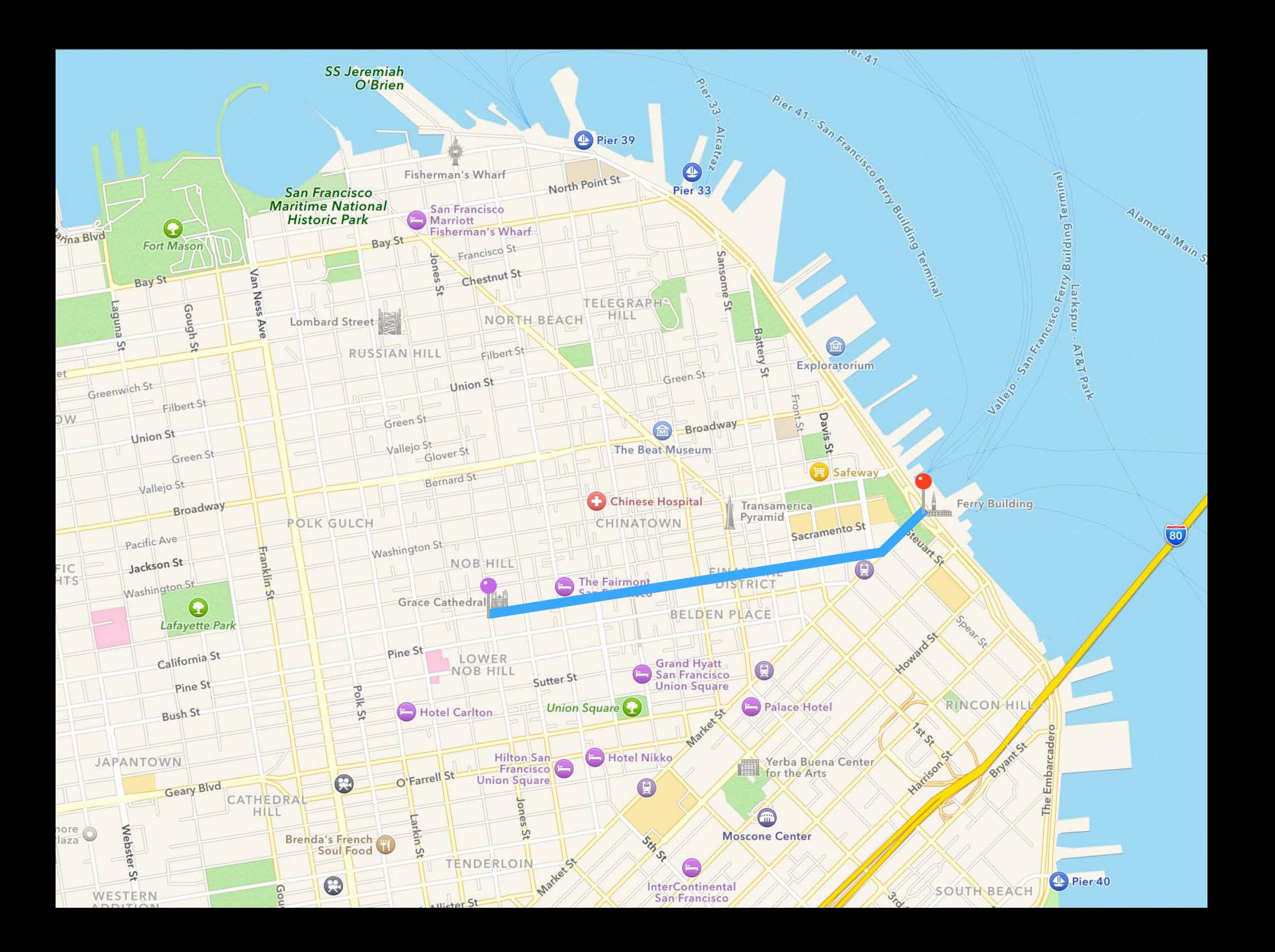
Customizing standard segues

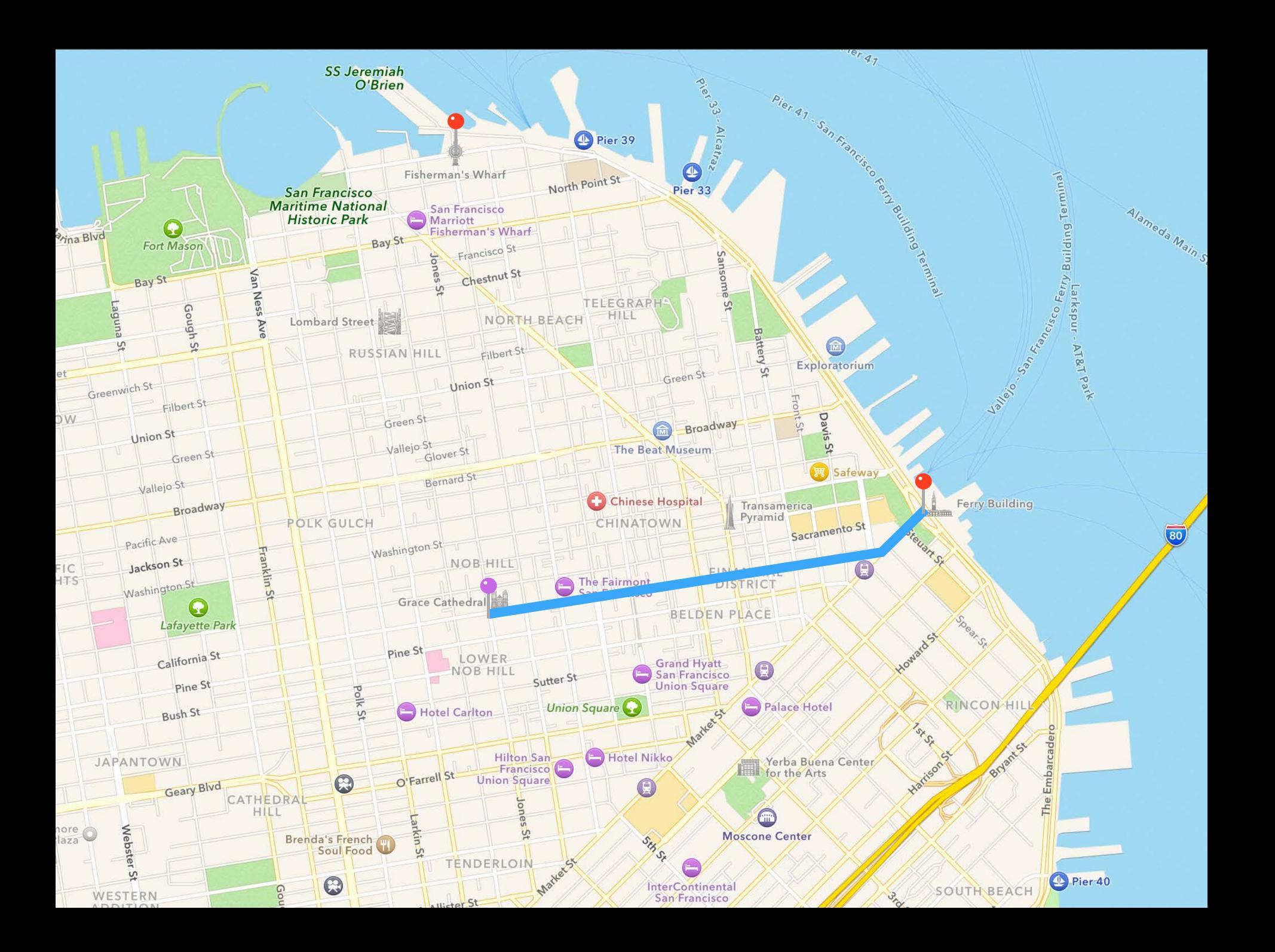
Unwind Segues and Custom Containers

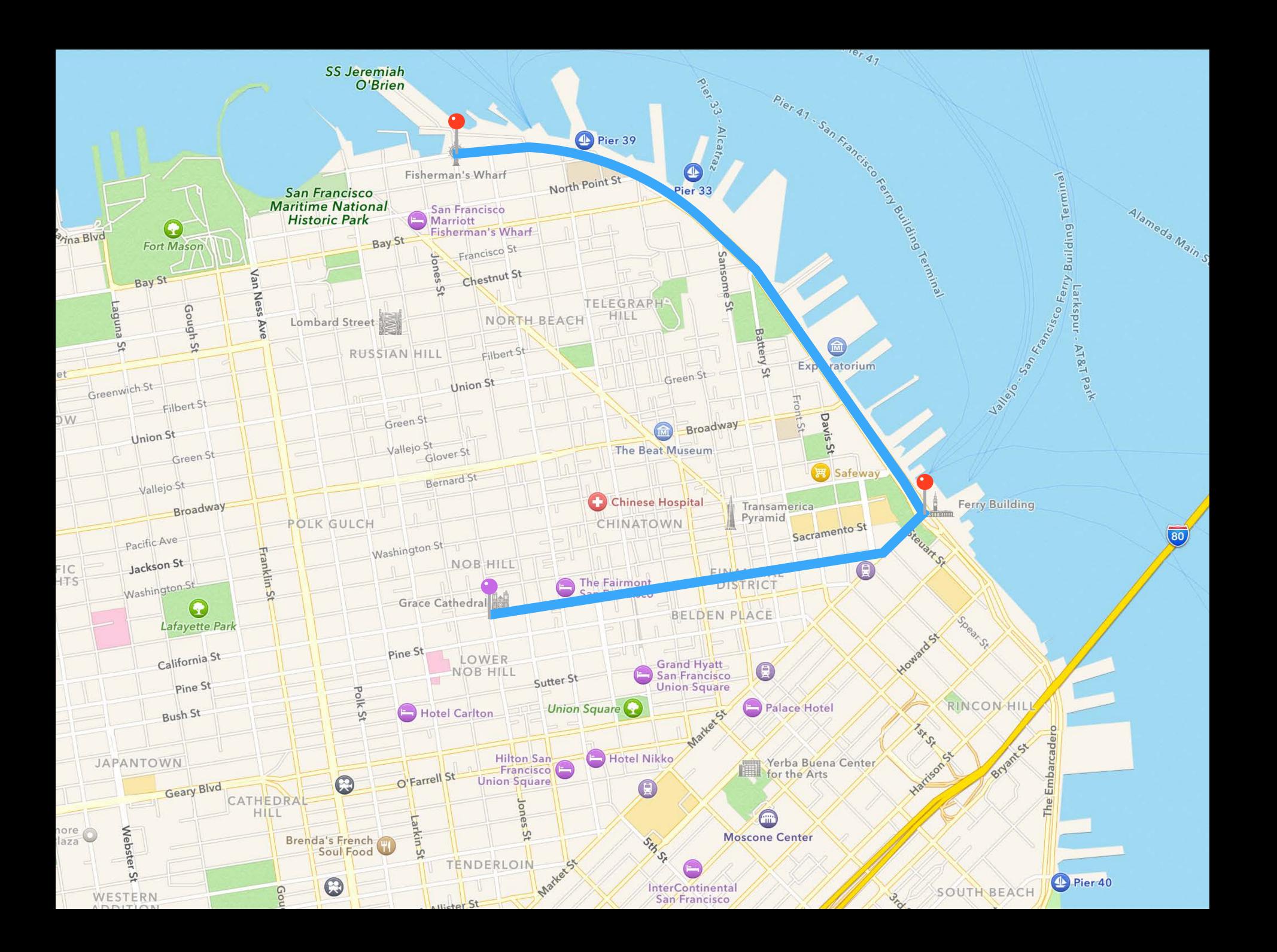


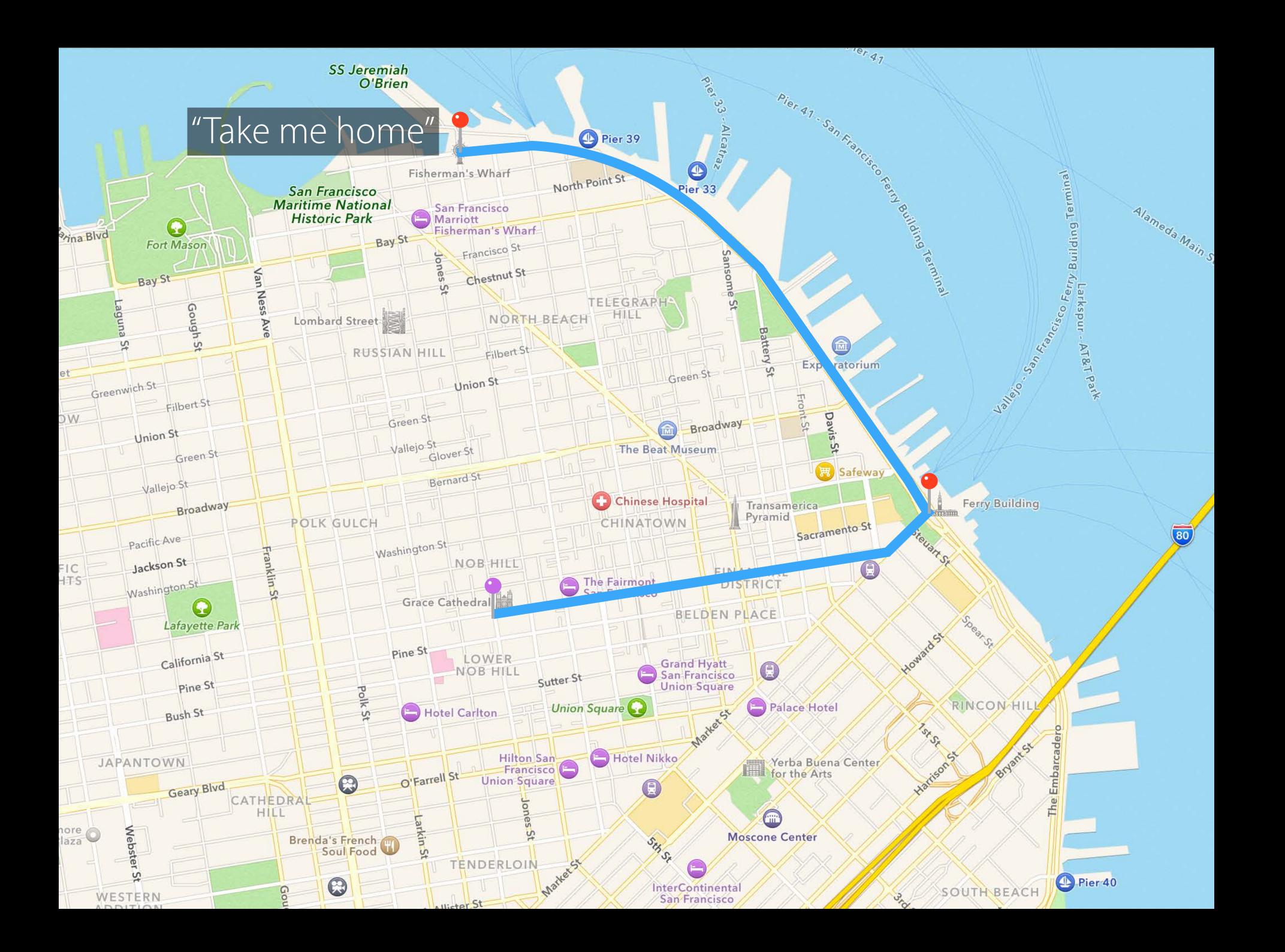


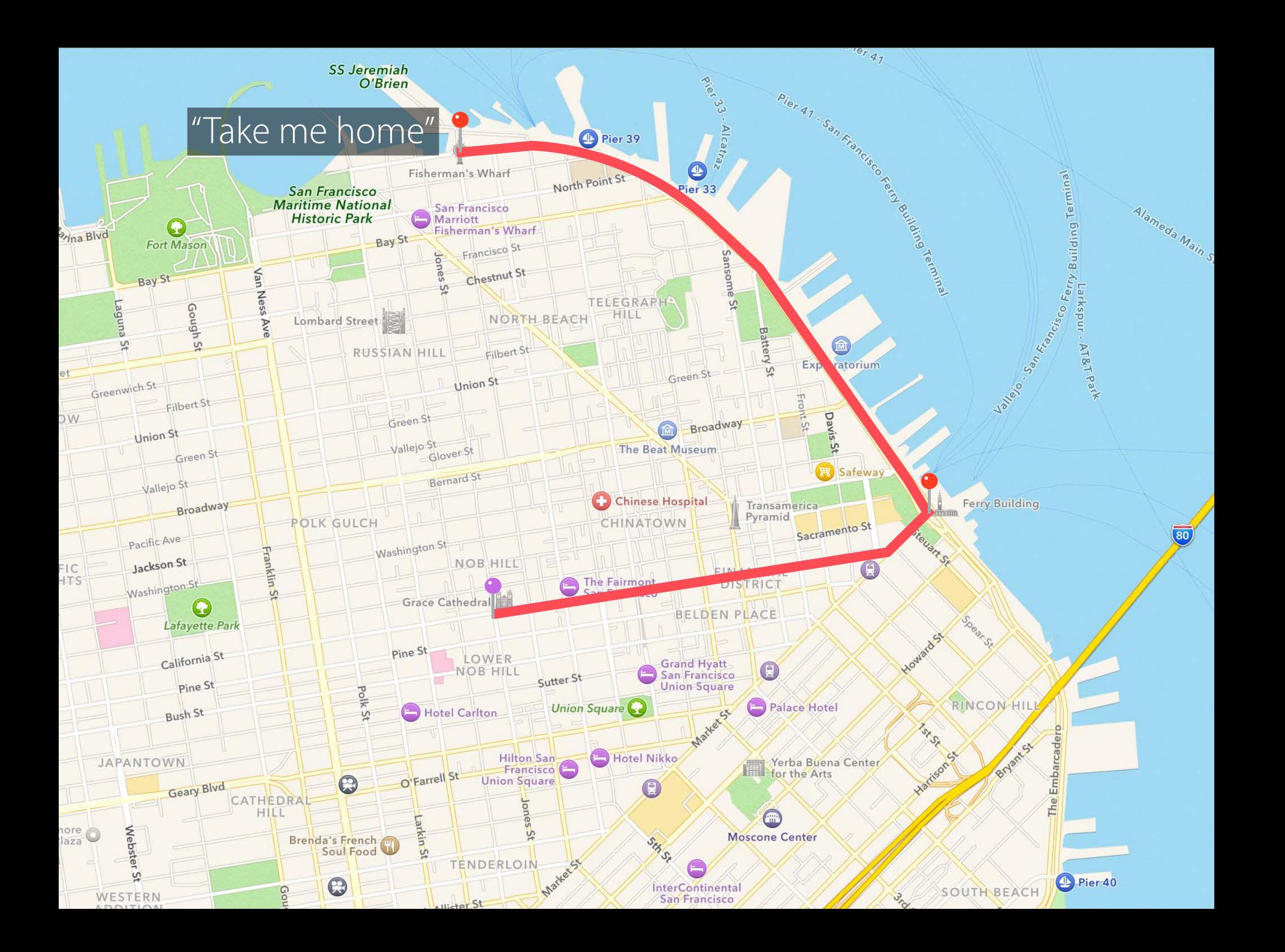


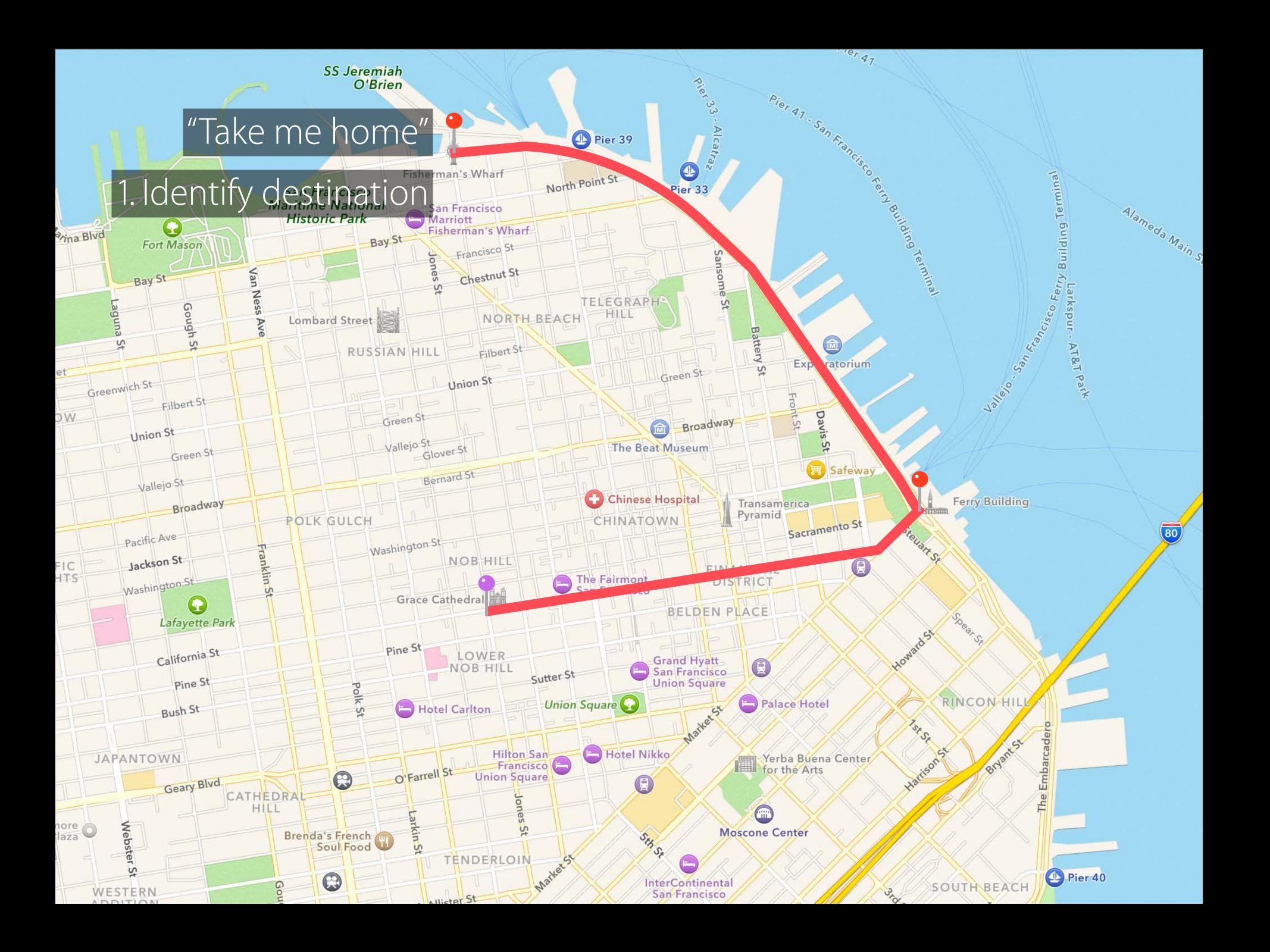


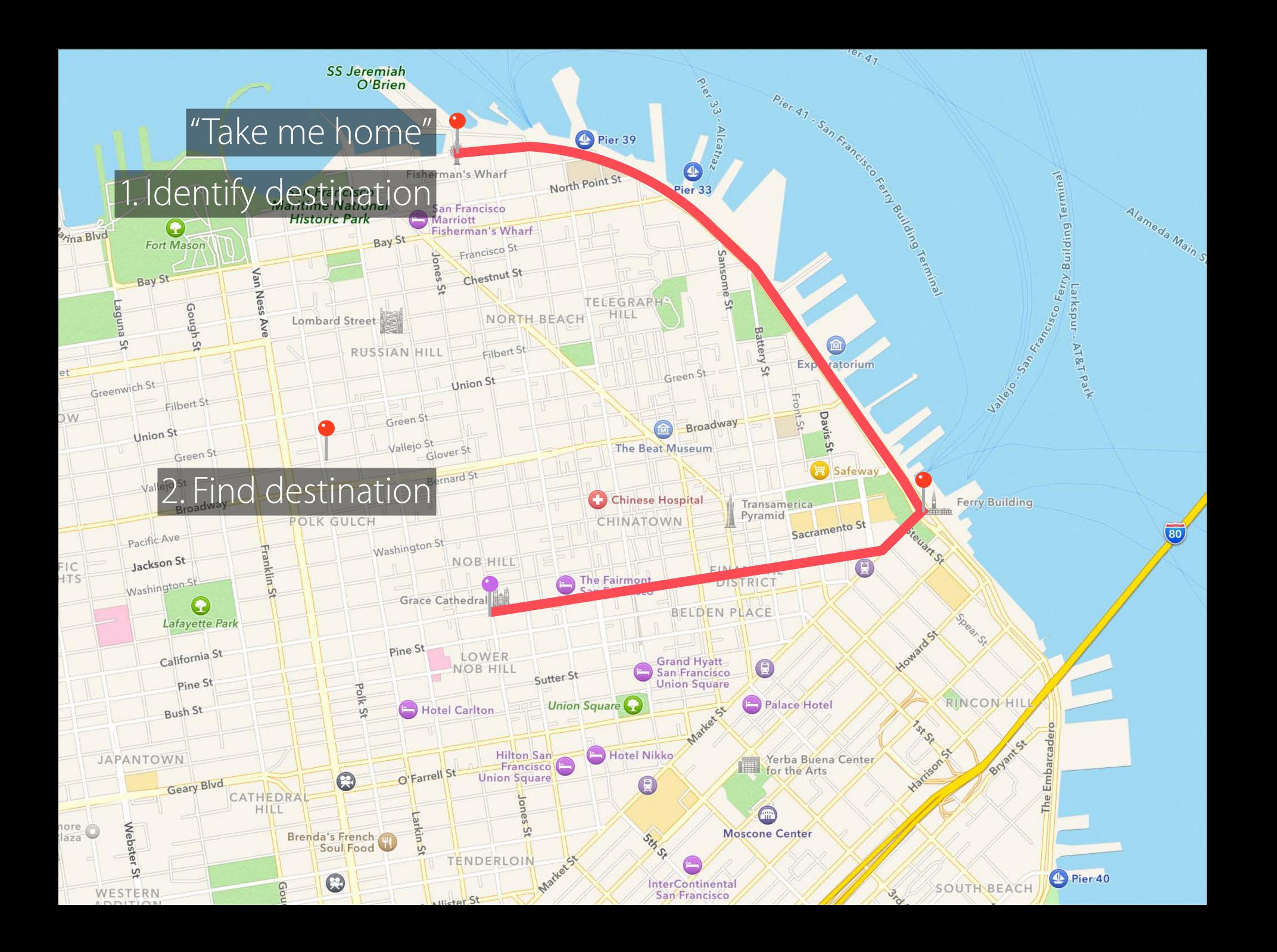


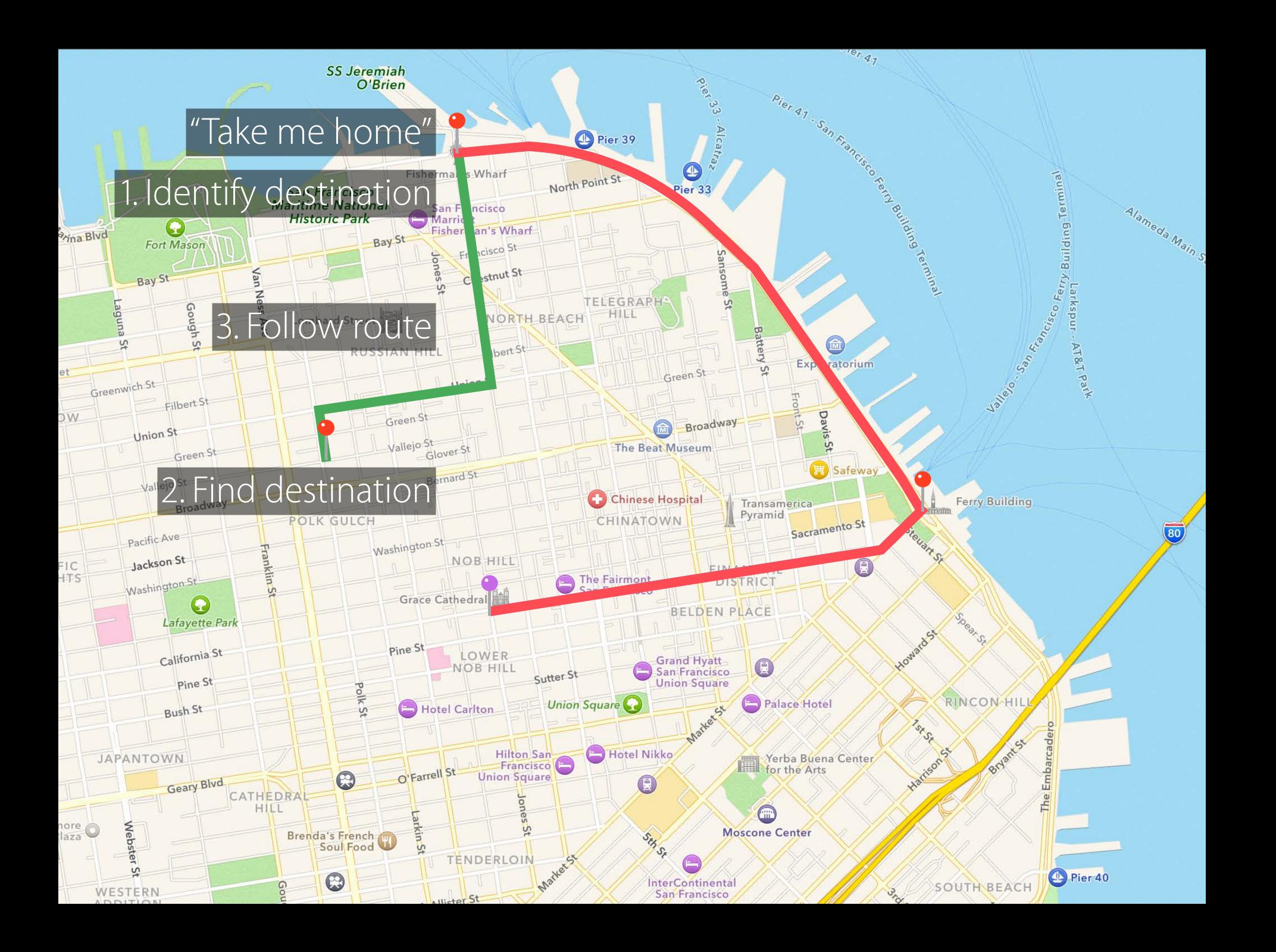


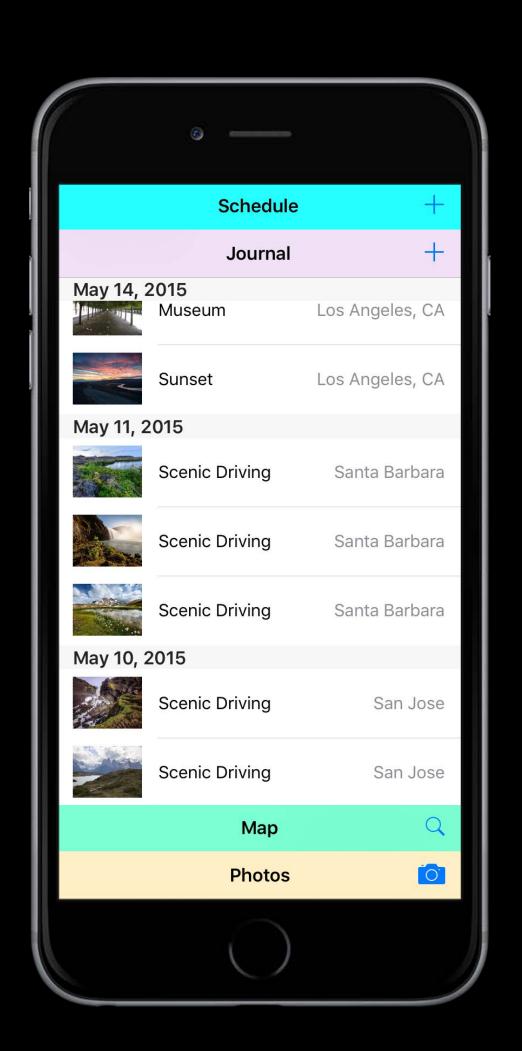


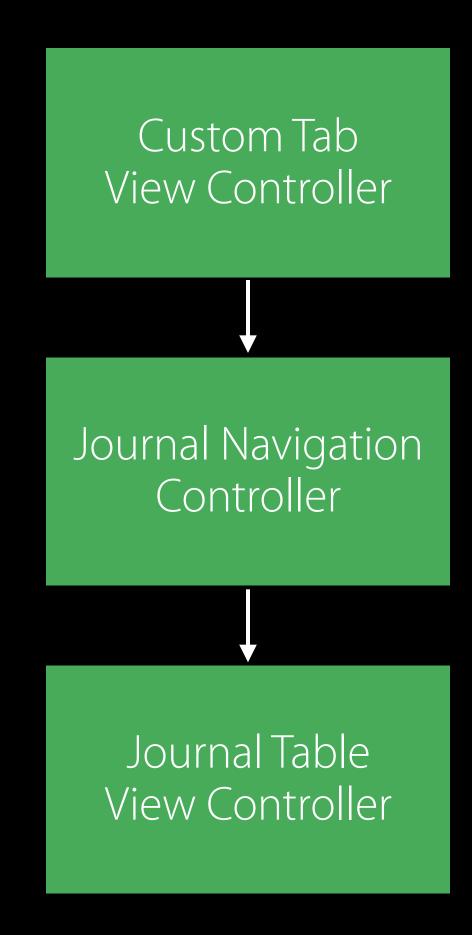


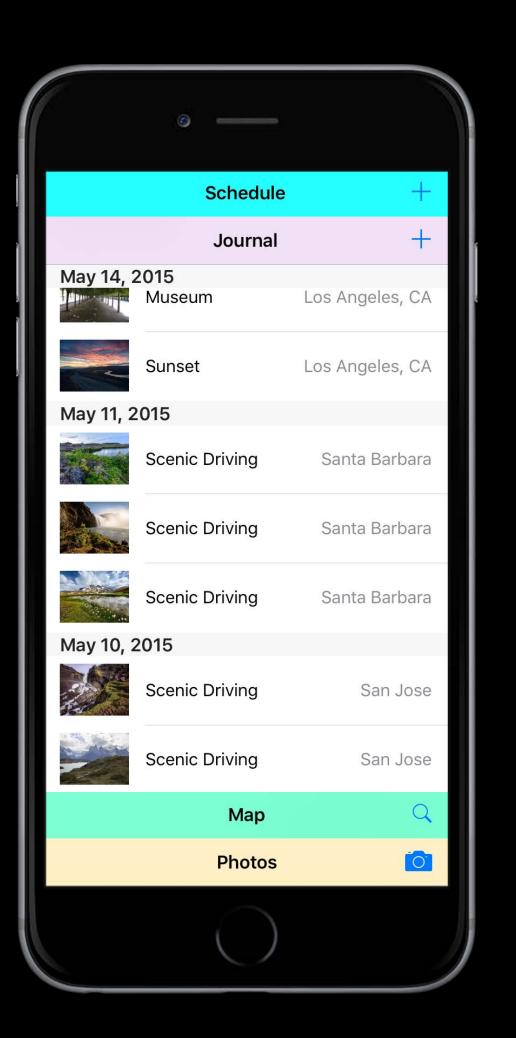


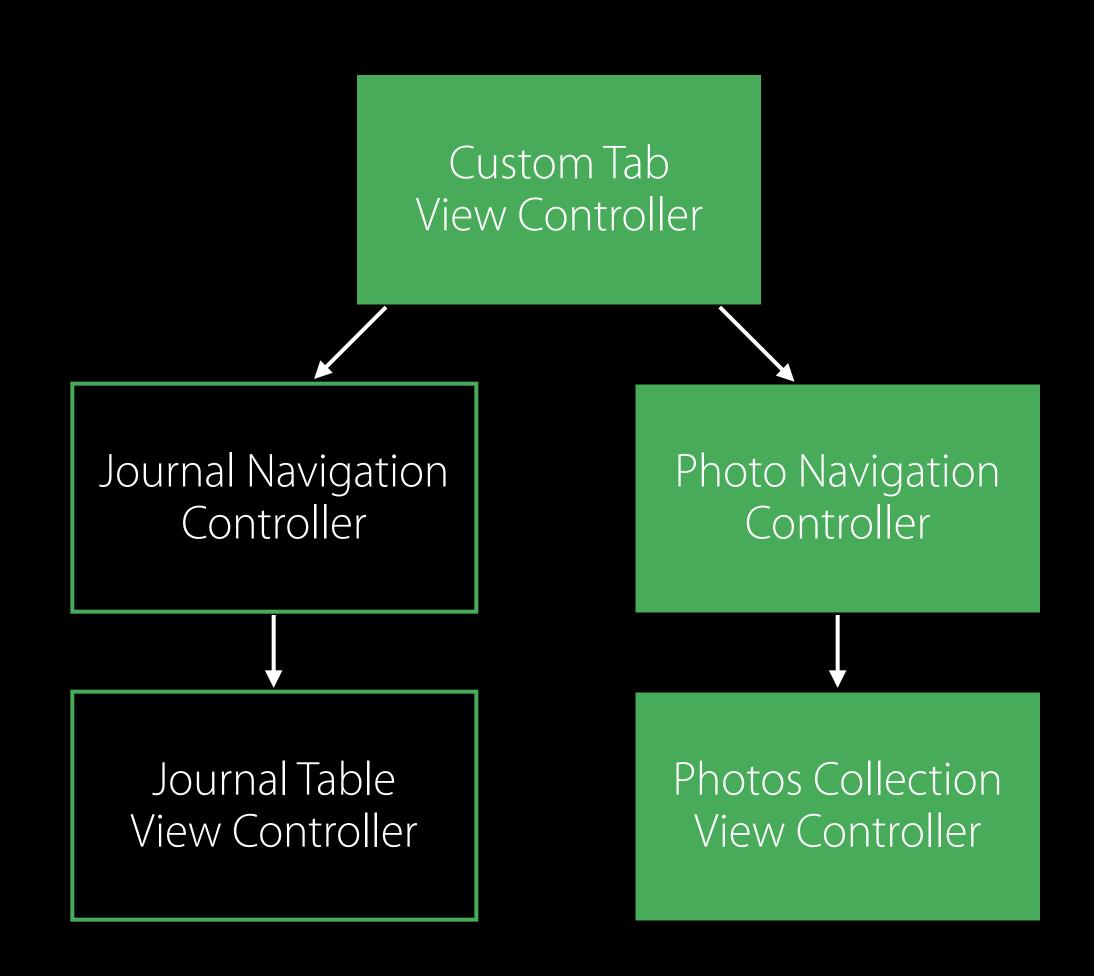


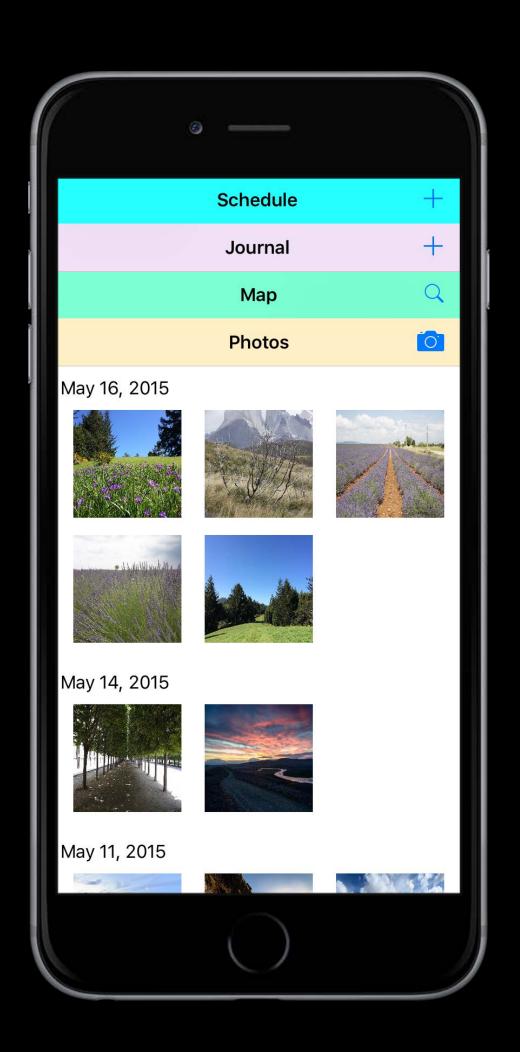


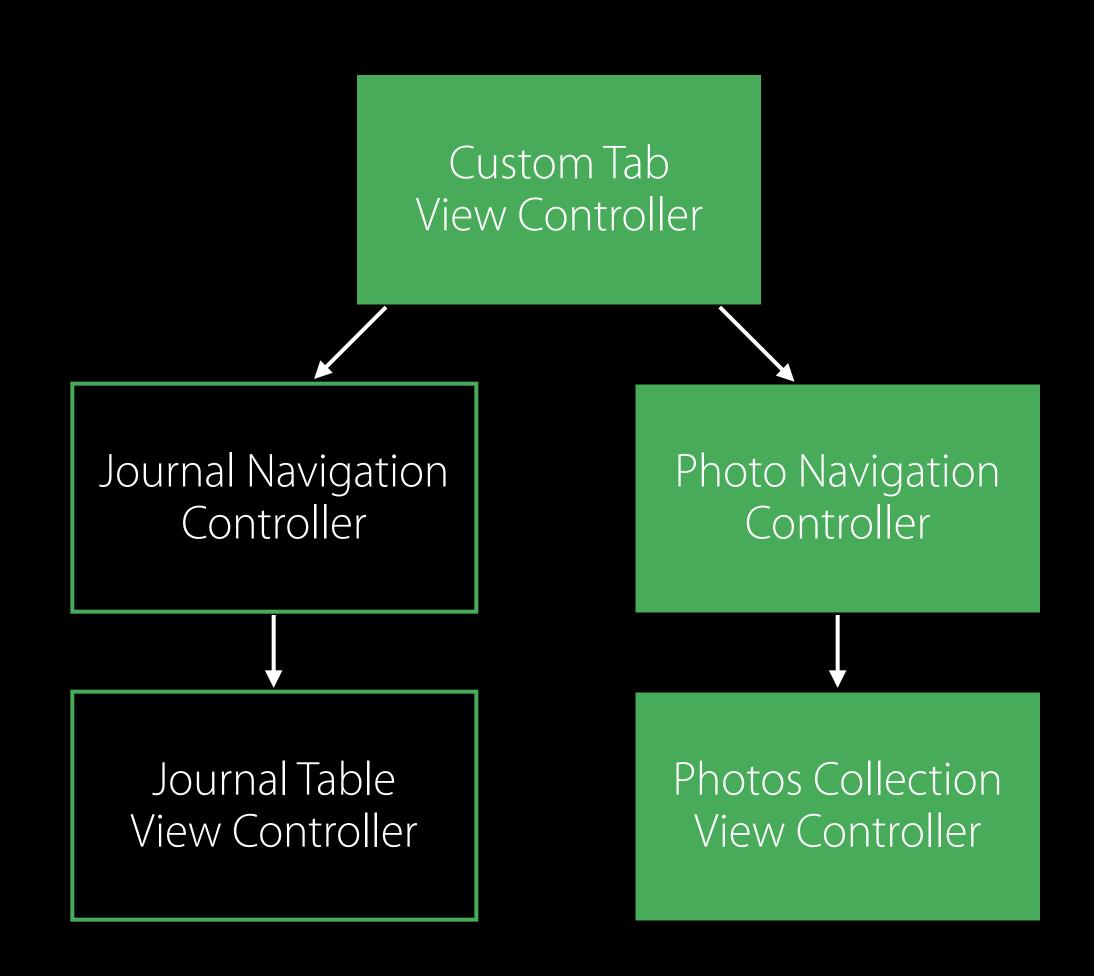


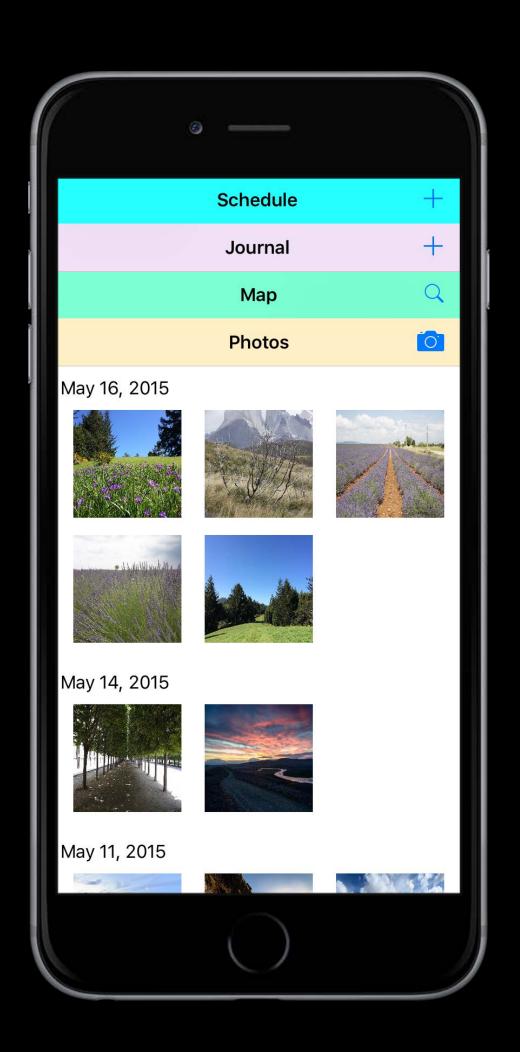


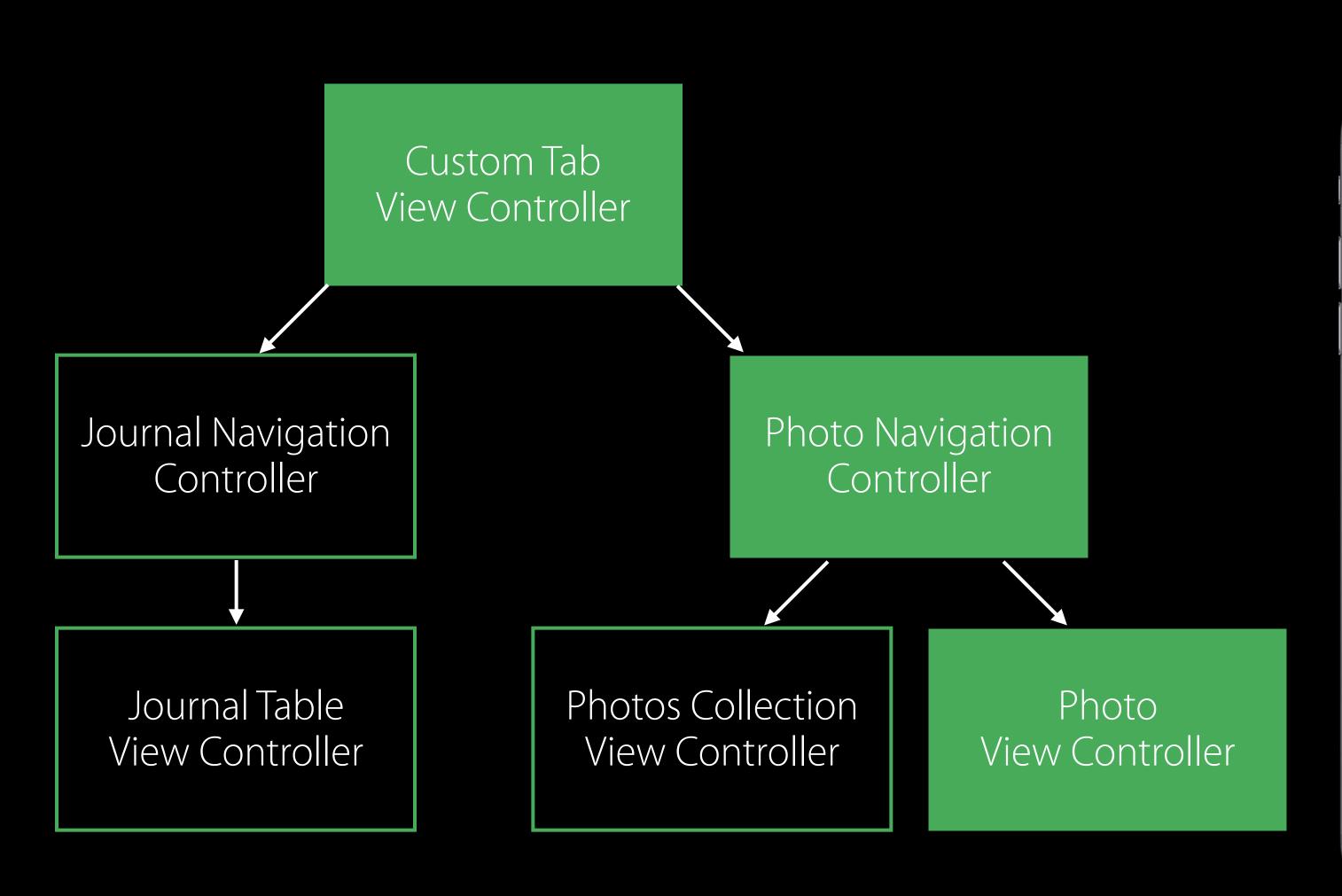


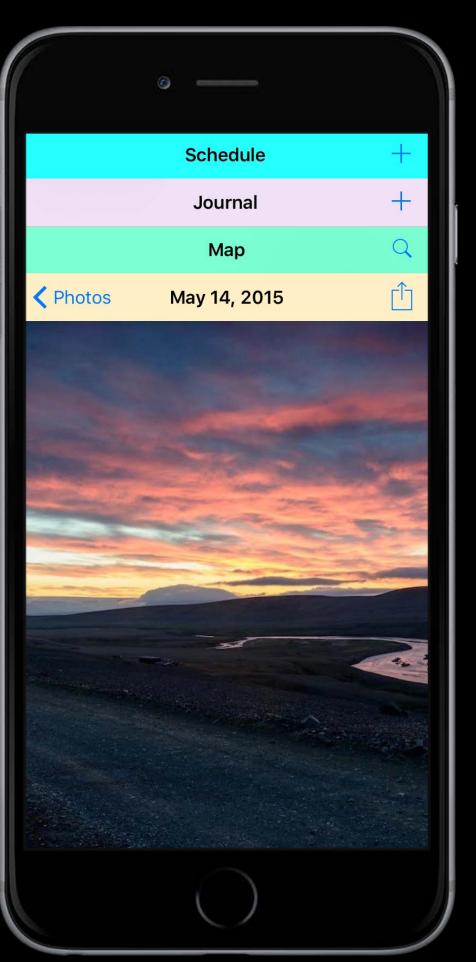


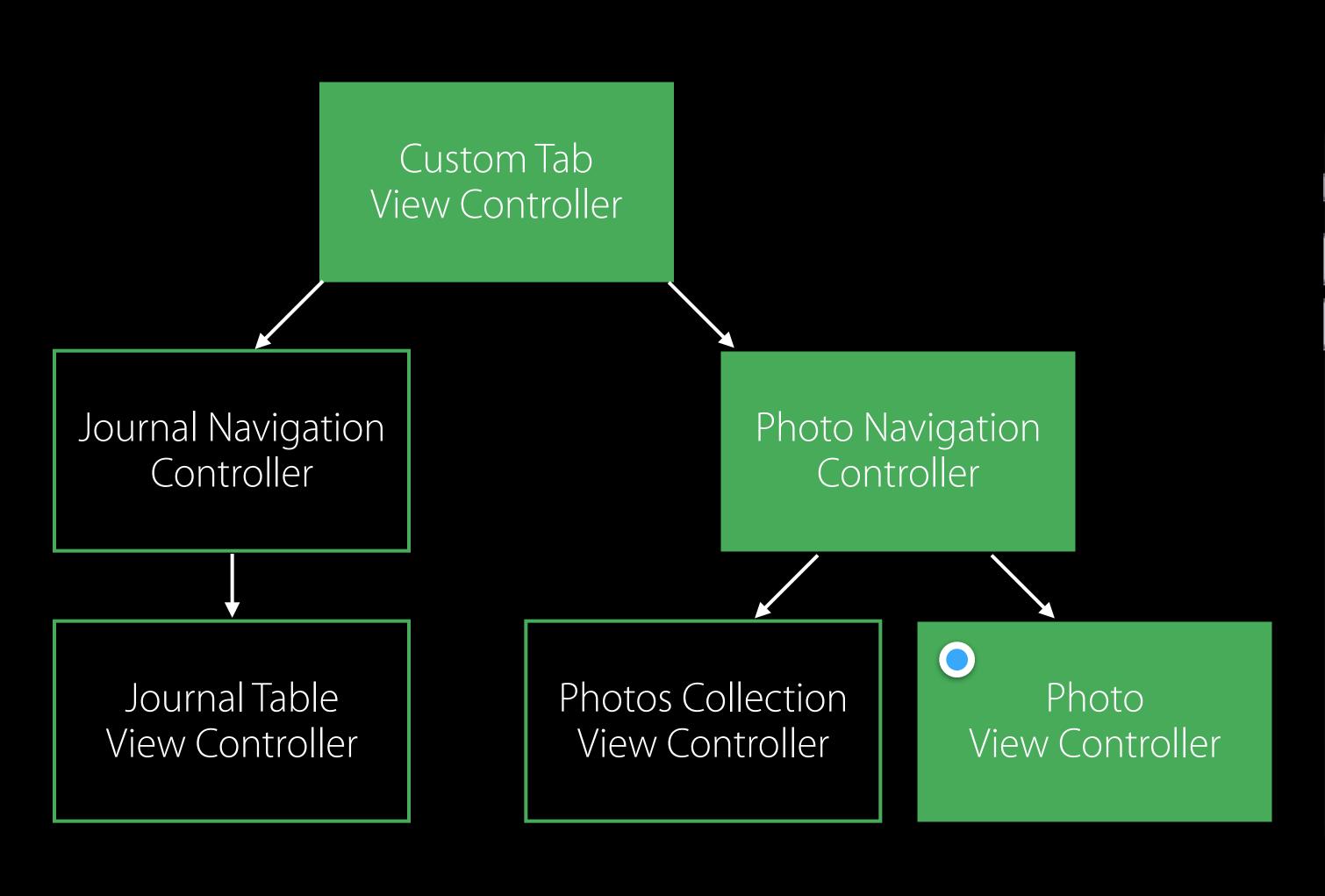


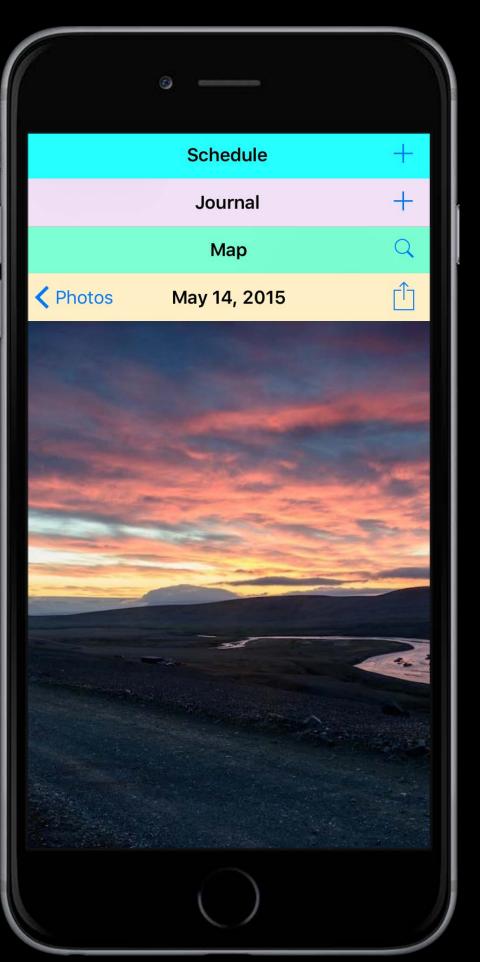




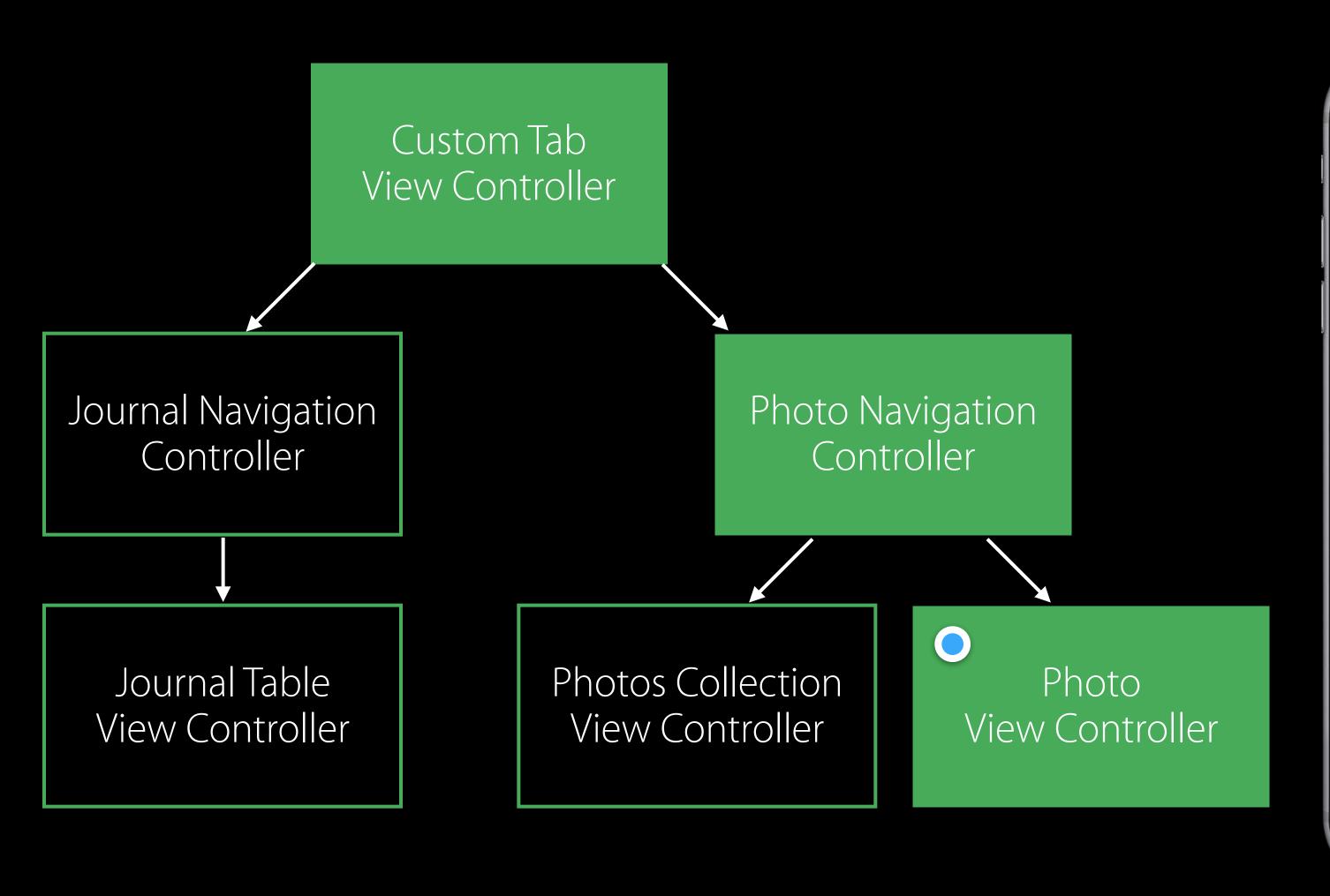


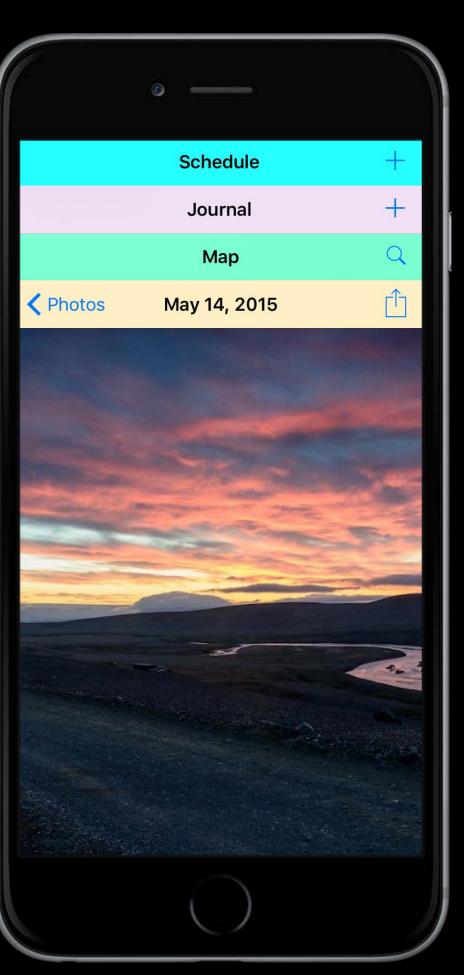


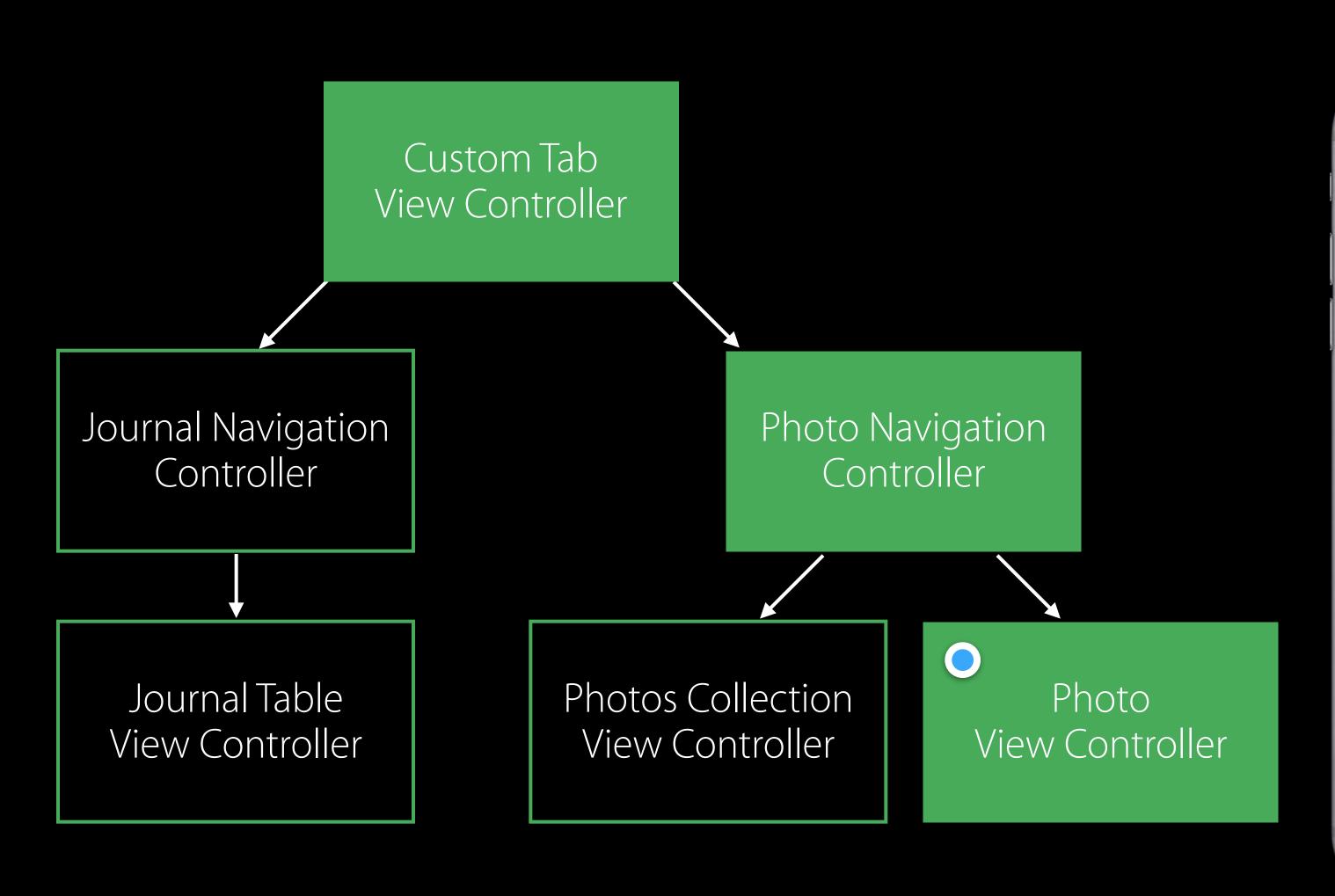


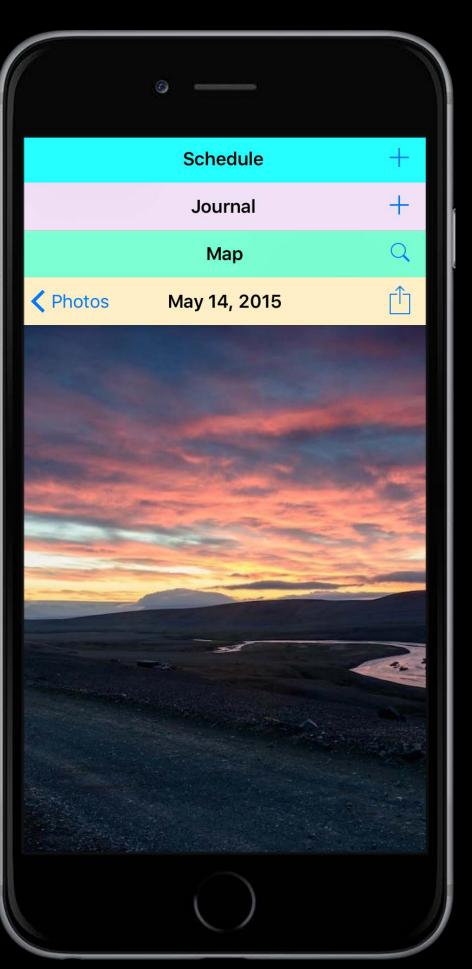


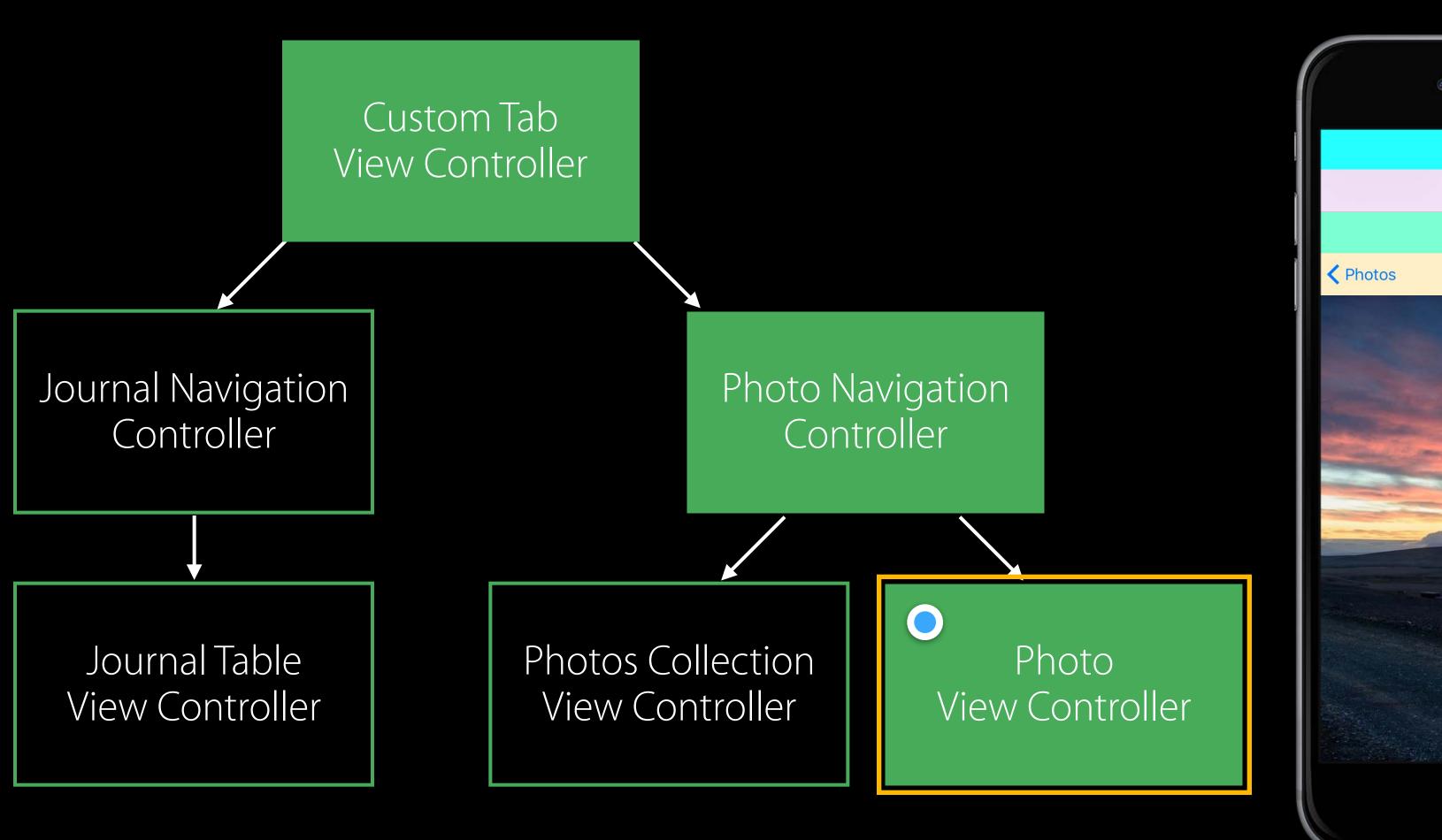
"Go back to the journal"

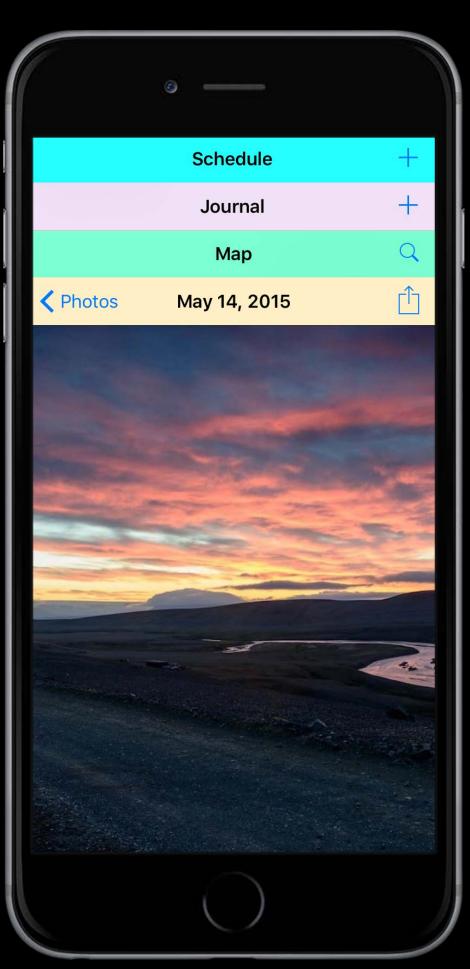




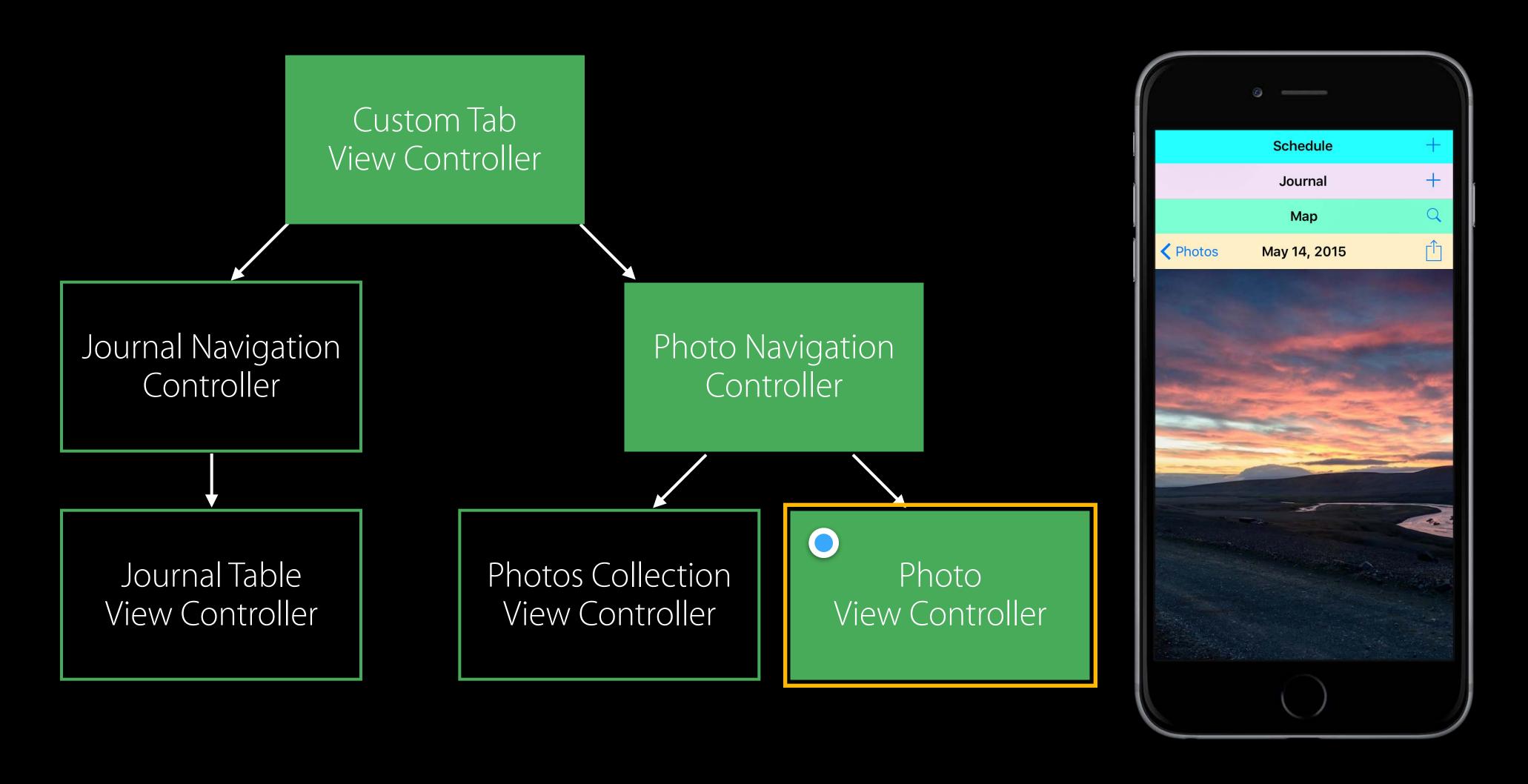


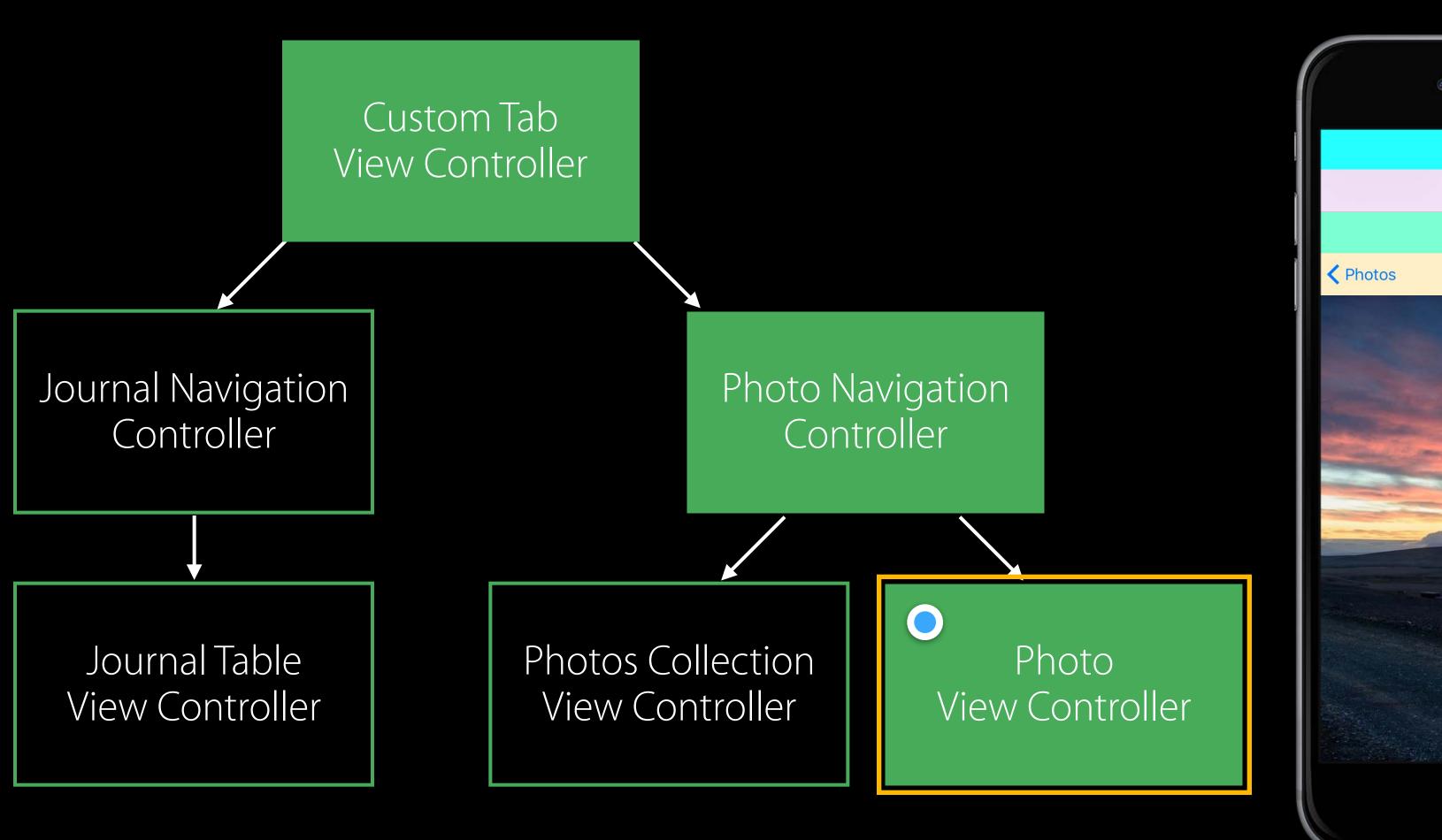


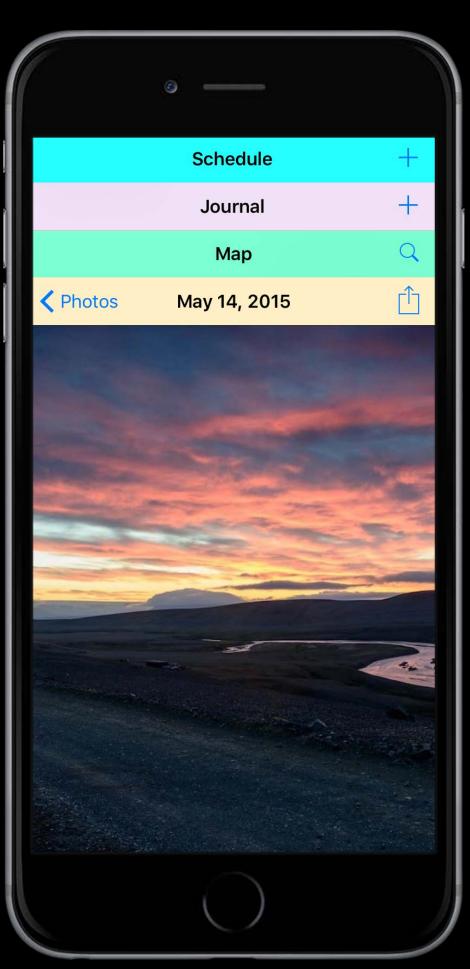




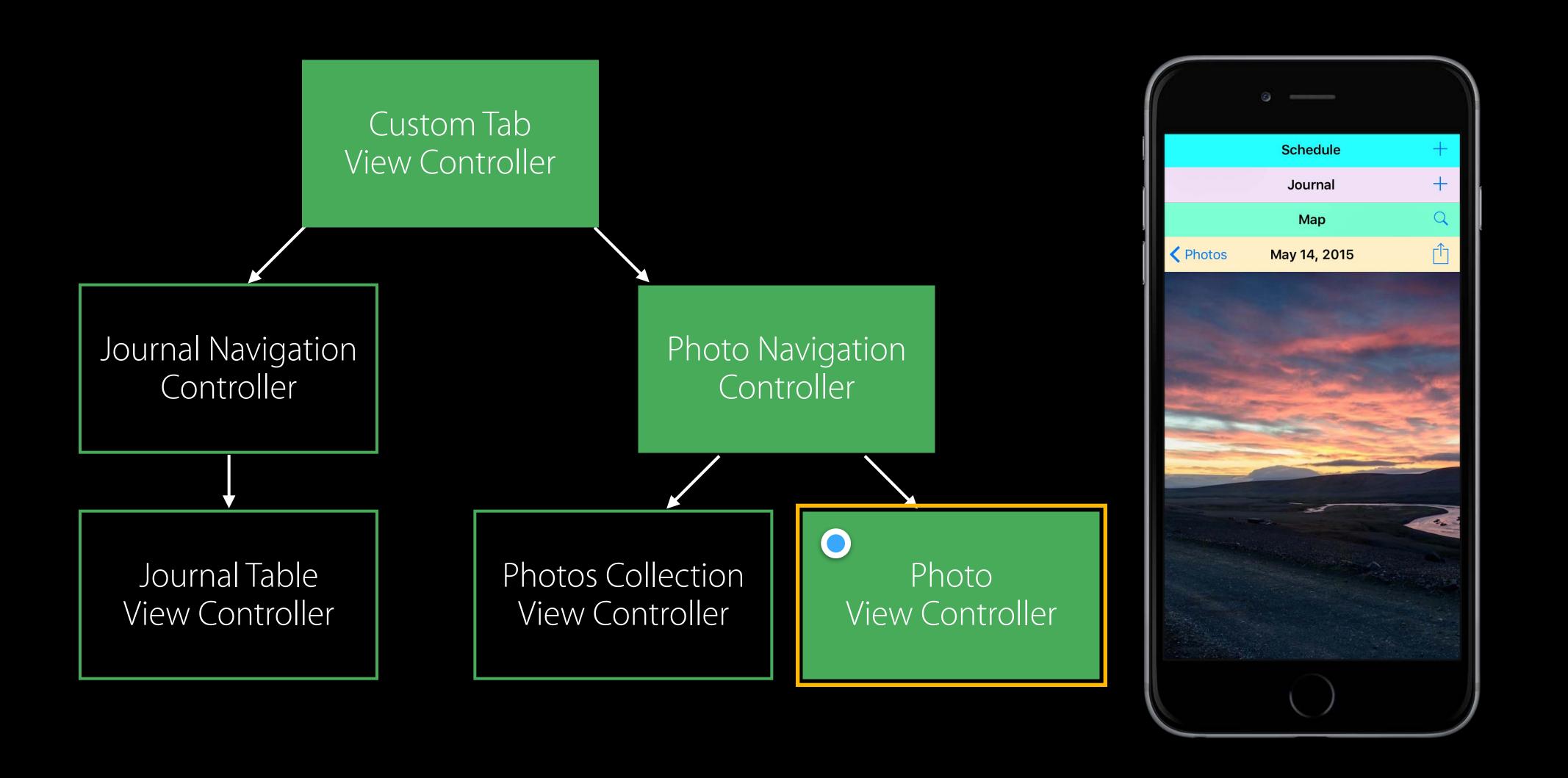
performSelectorWithIdentifier("goBackToJournal", sender:...)



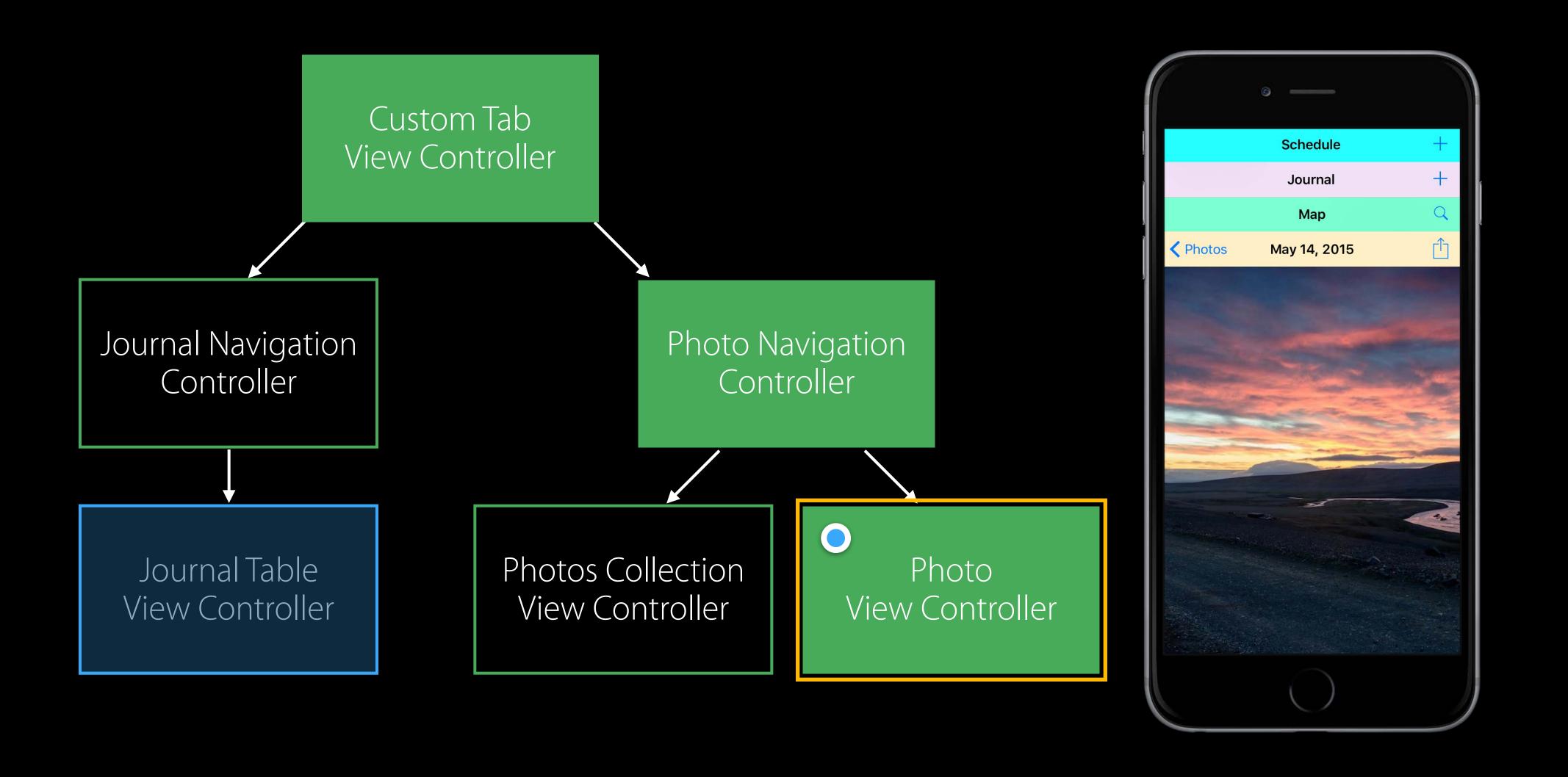




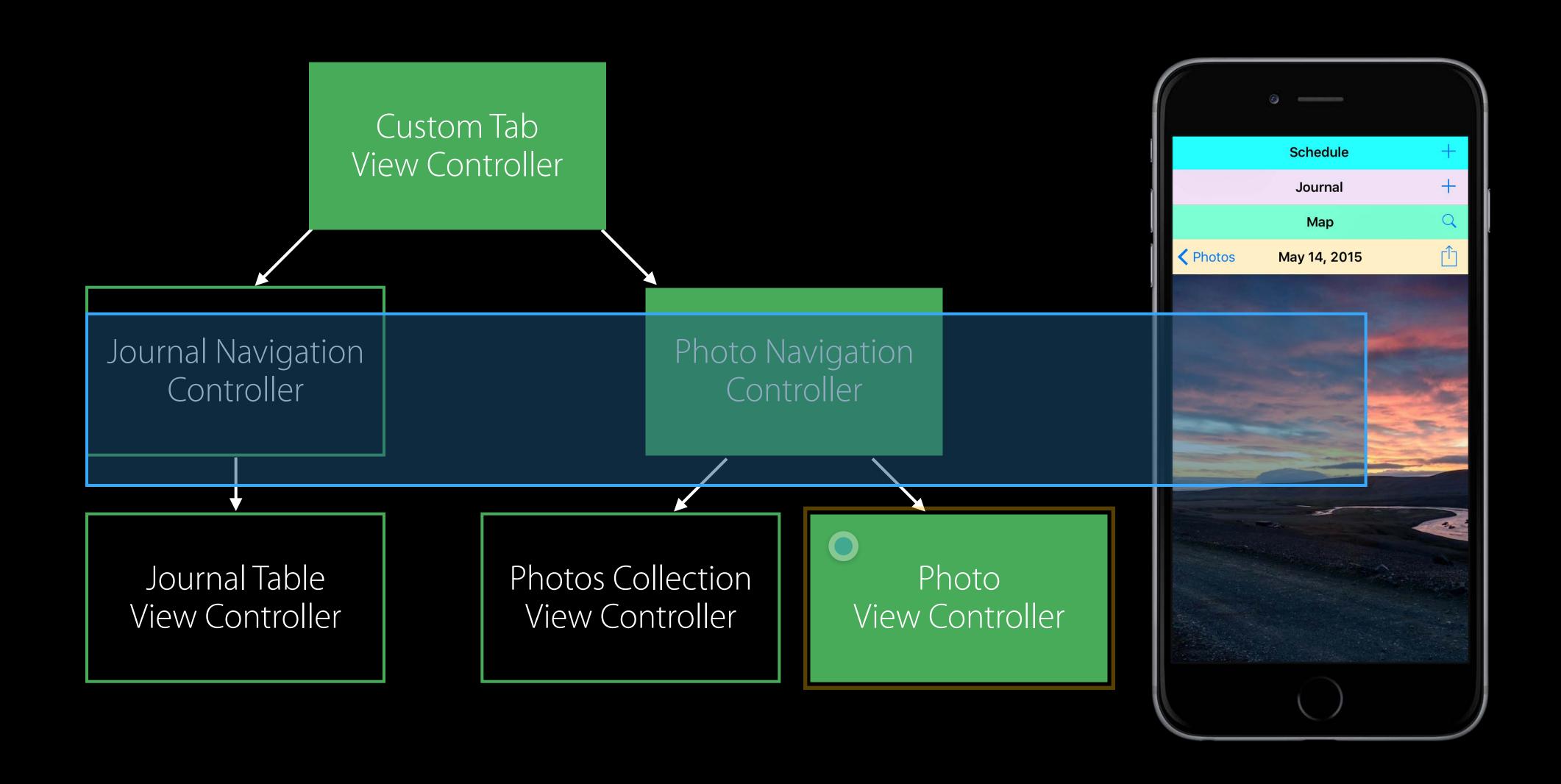
Identify the destination



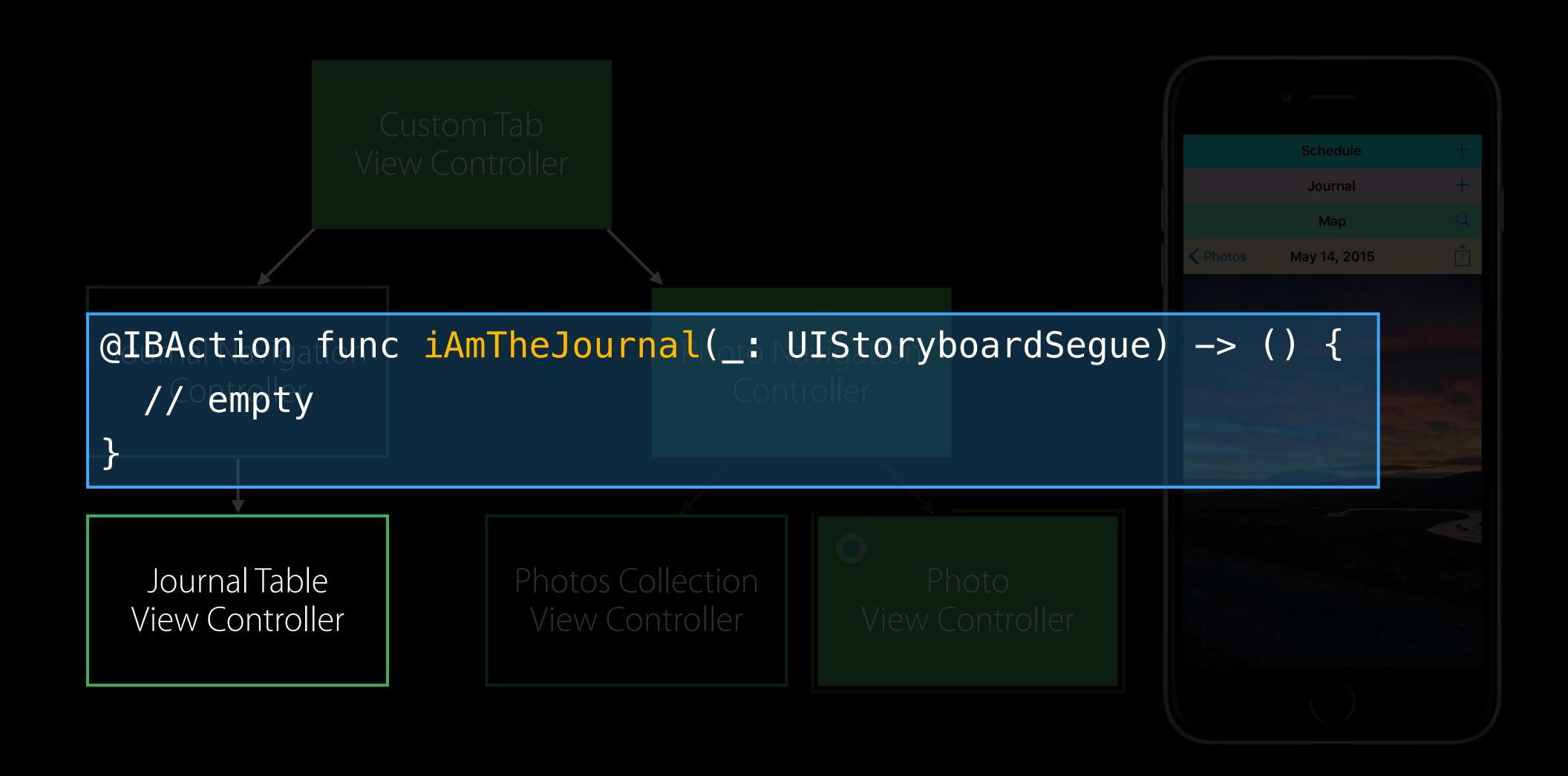
Identify the destination



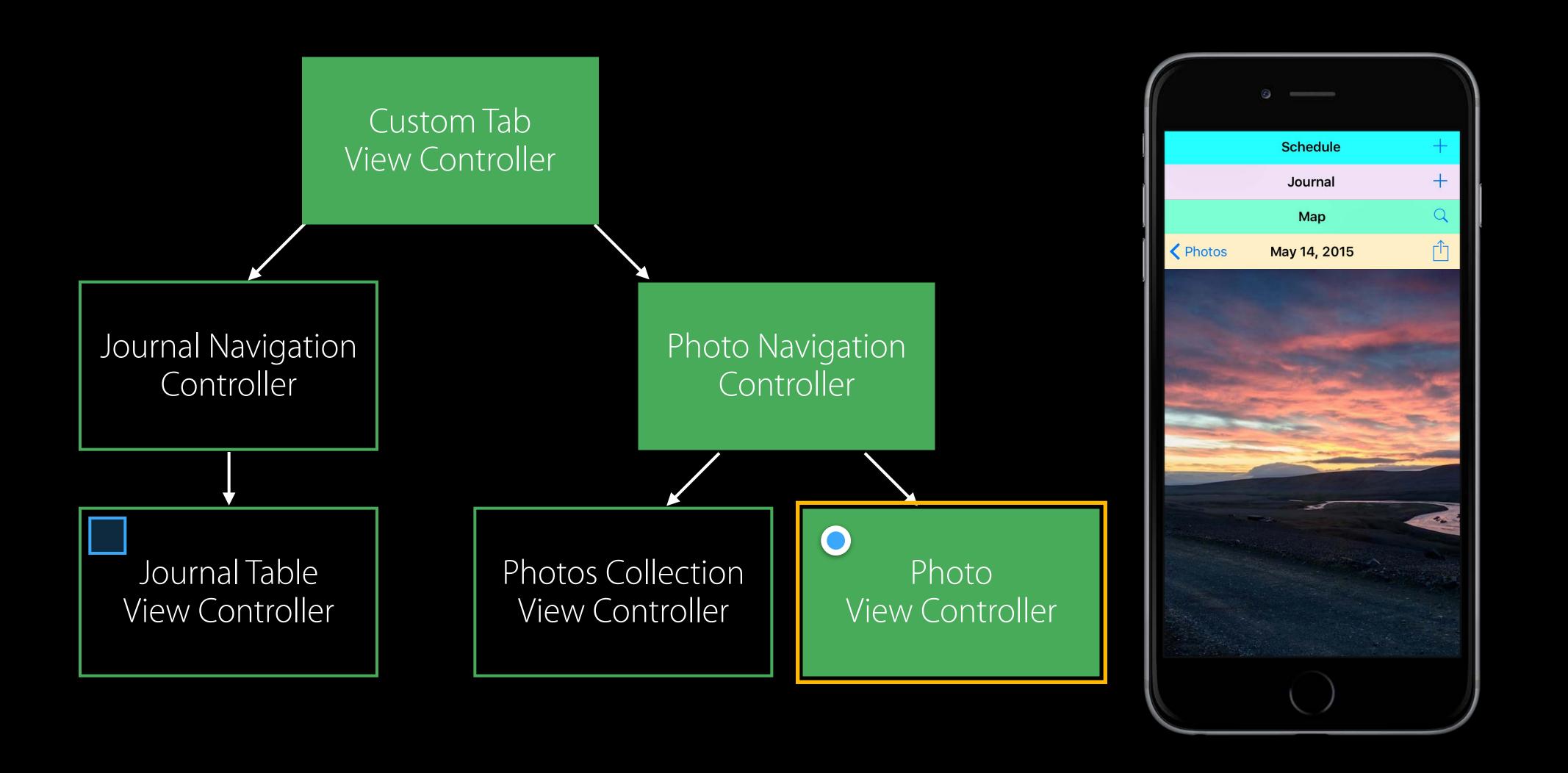
Unwind Segues Identify the destination



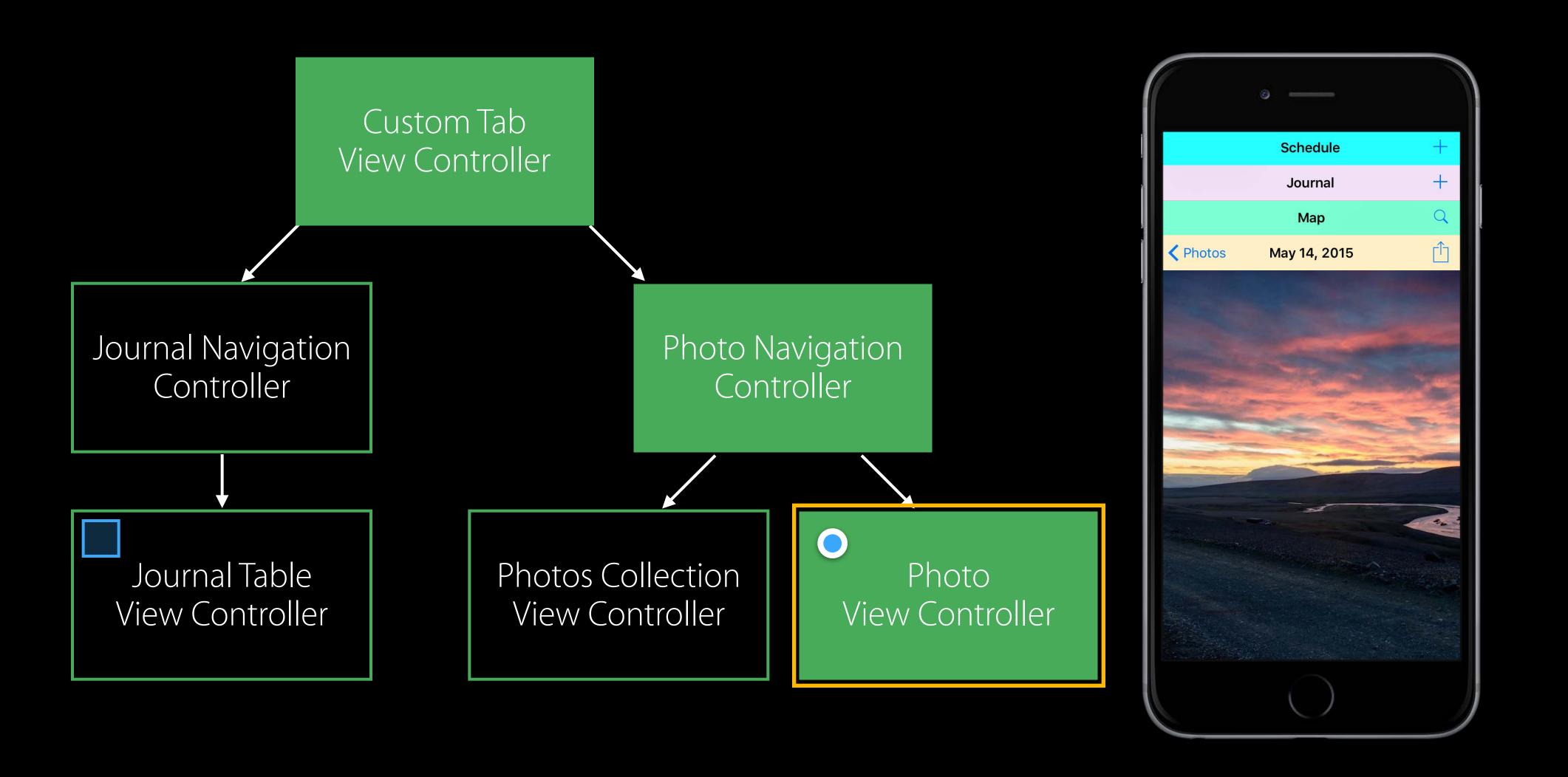
Unwind Segues Identify the destination



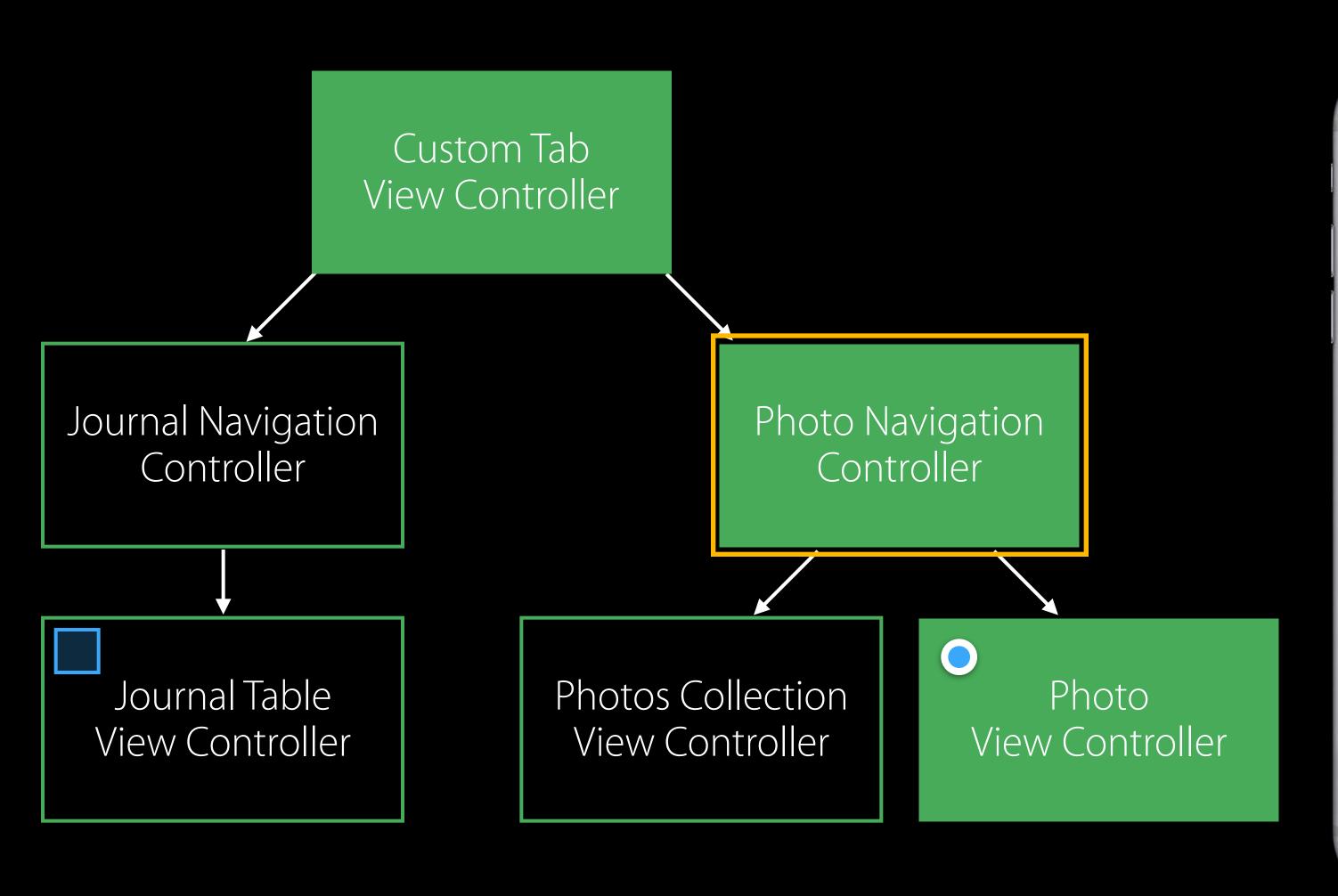
Identify the destination

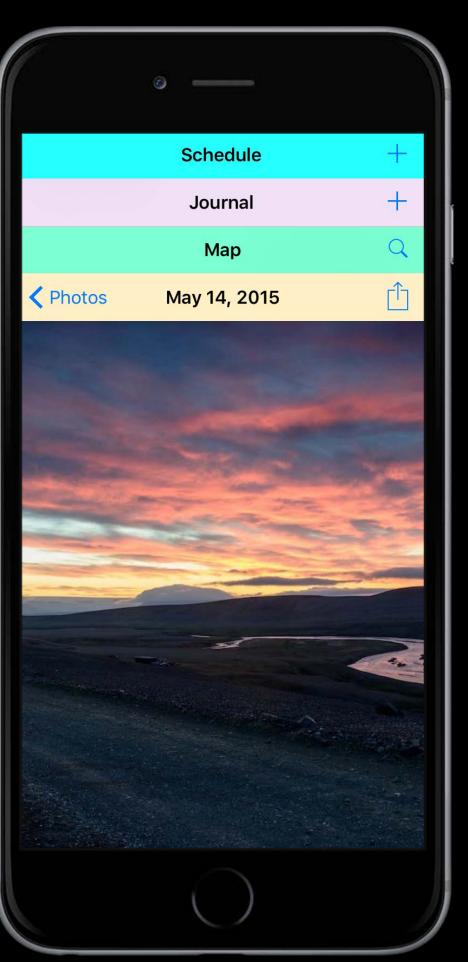


Find the destination

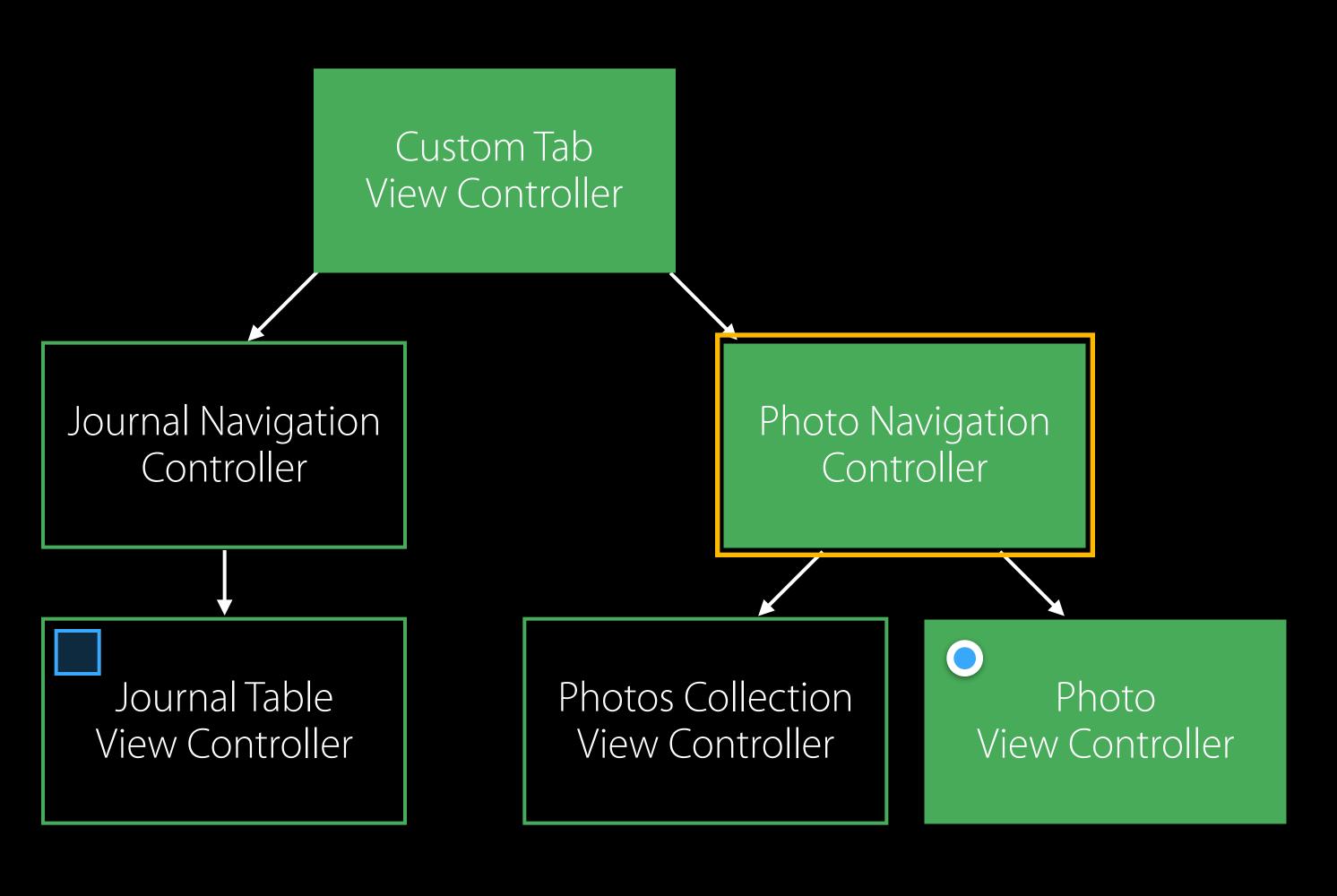


Find the destination





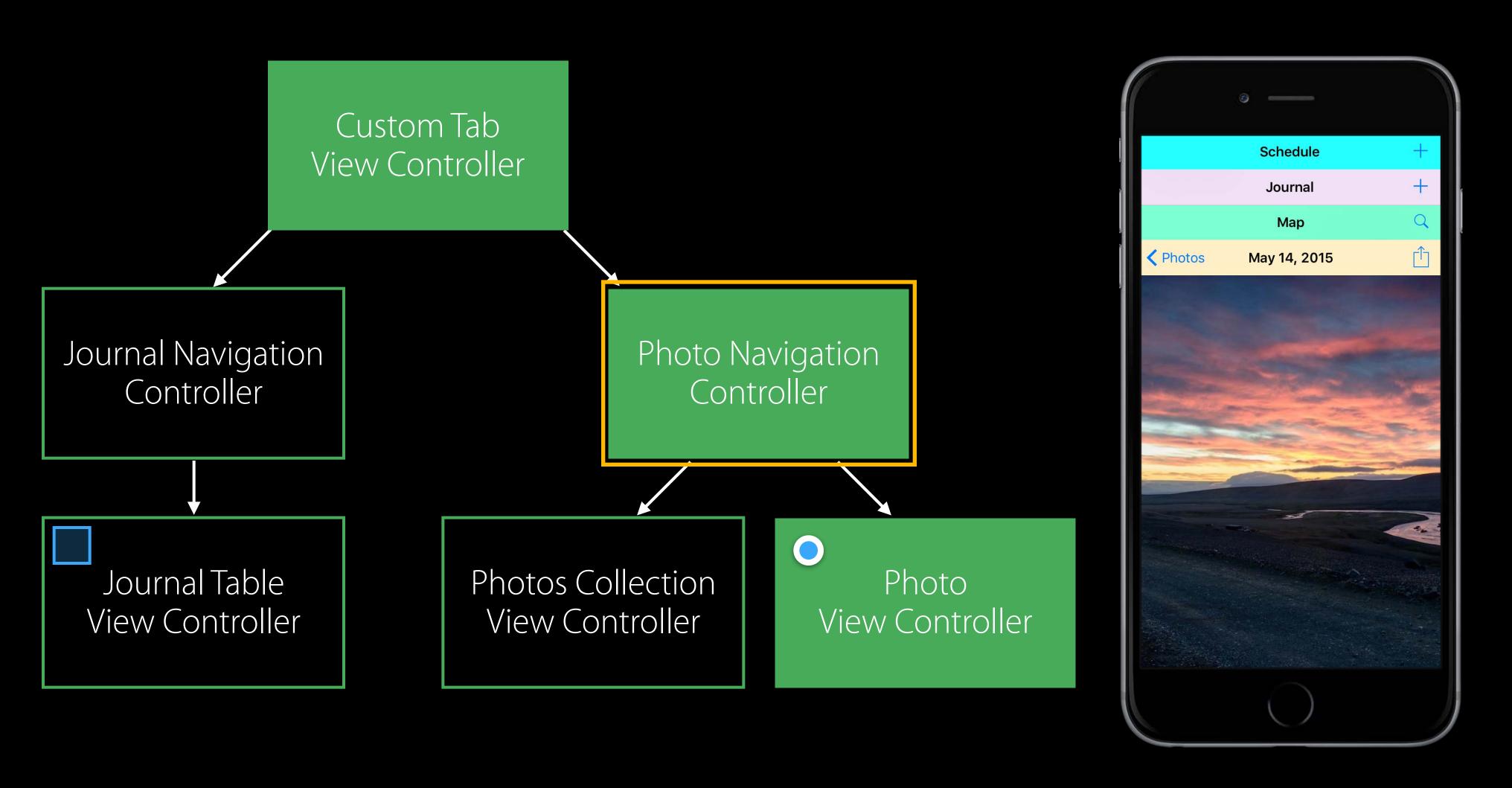


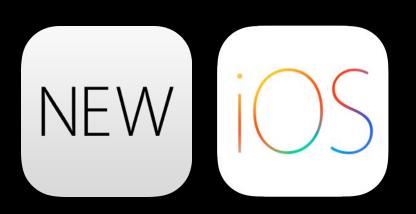




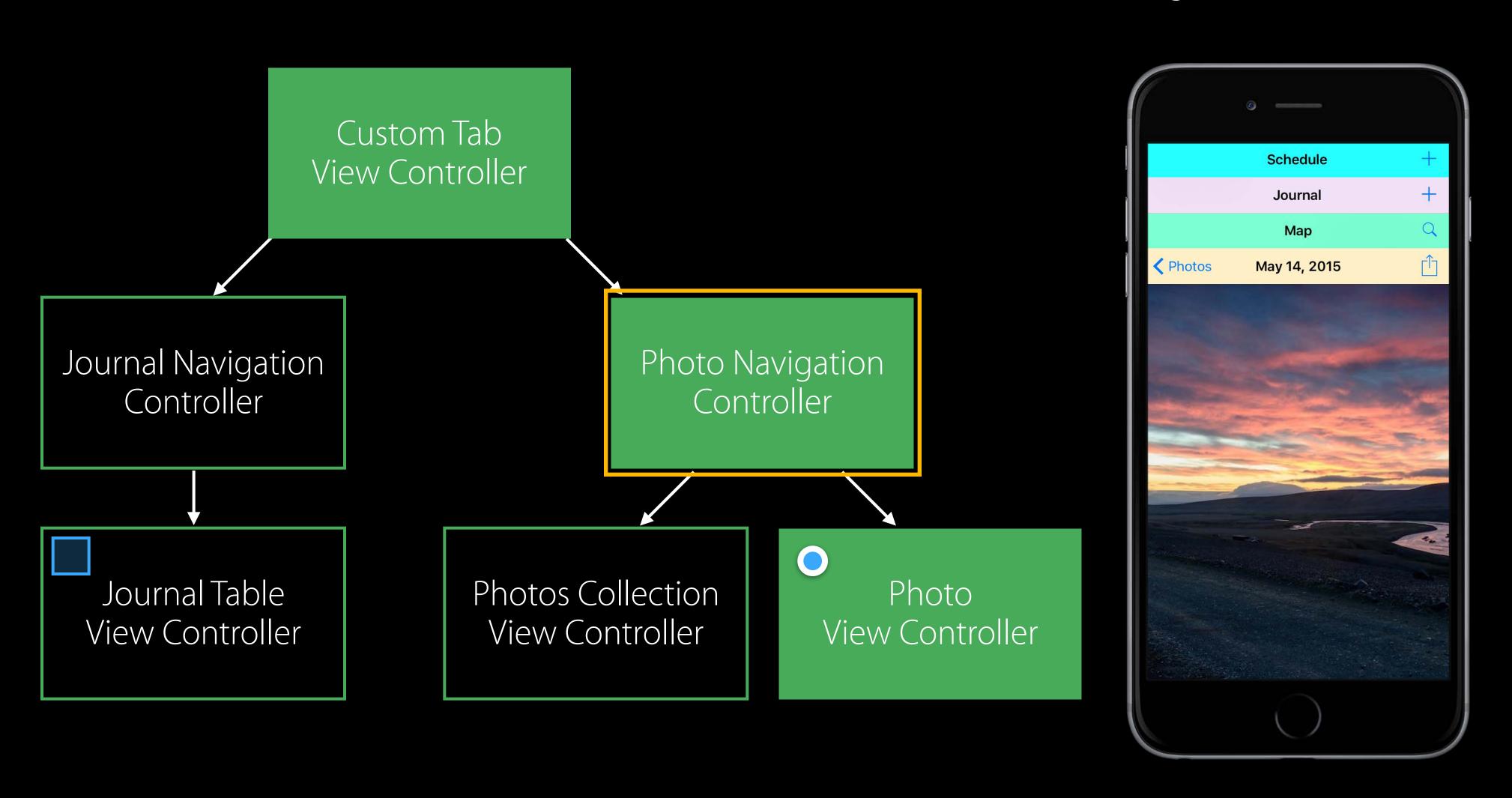


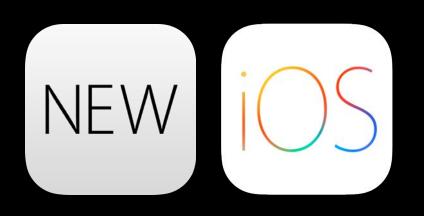
viewControllerForUnwindSegueAction("iAmTheJournal:", withSender:...)

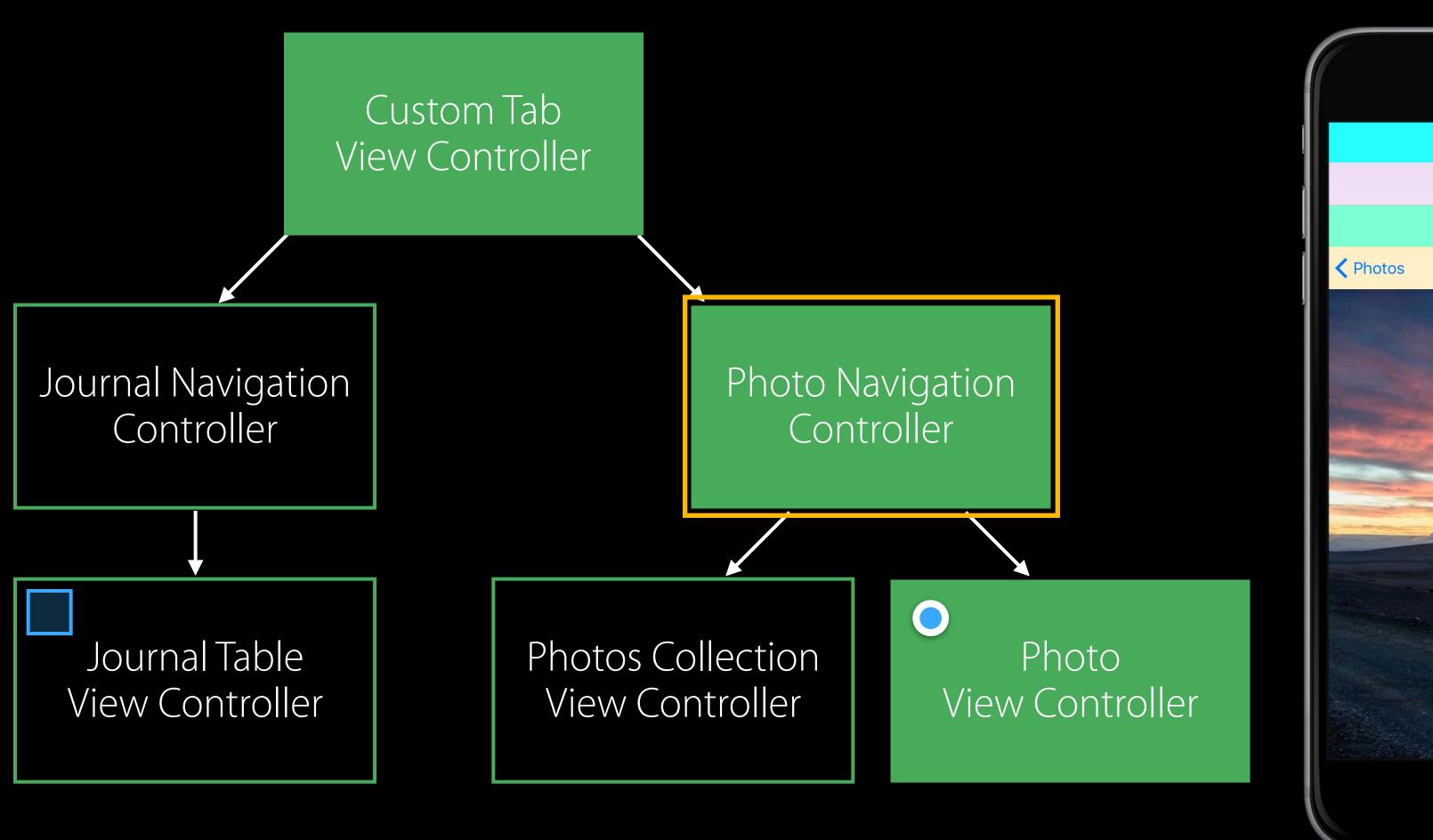




override allowedChildViewControllersForUnwindingFromSource(_:)

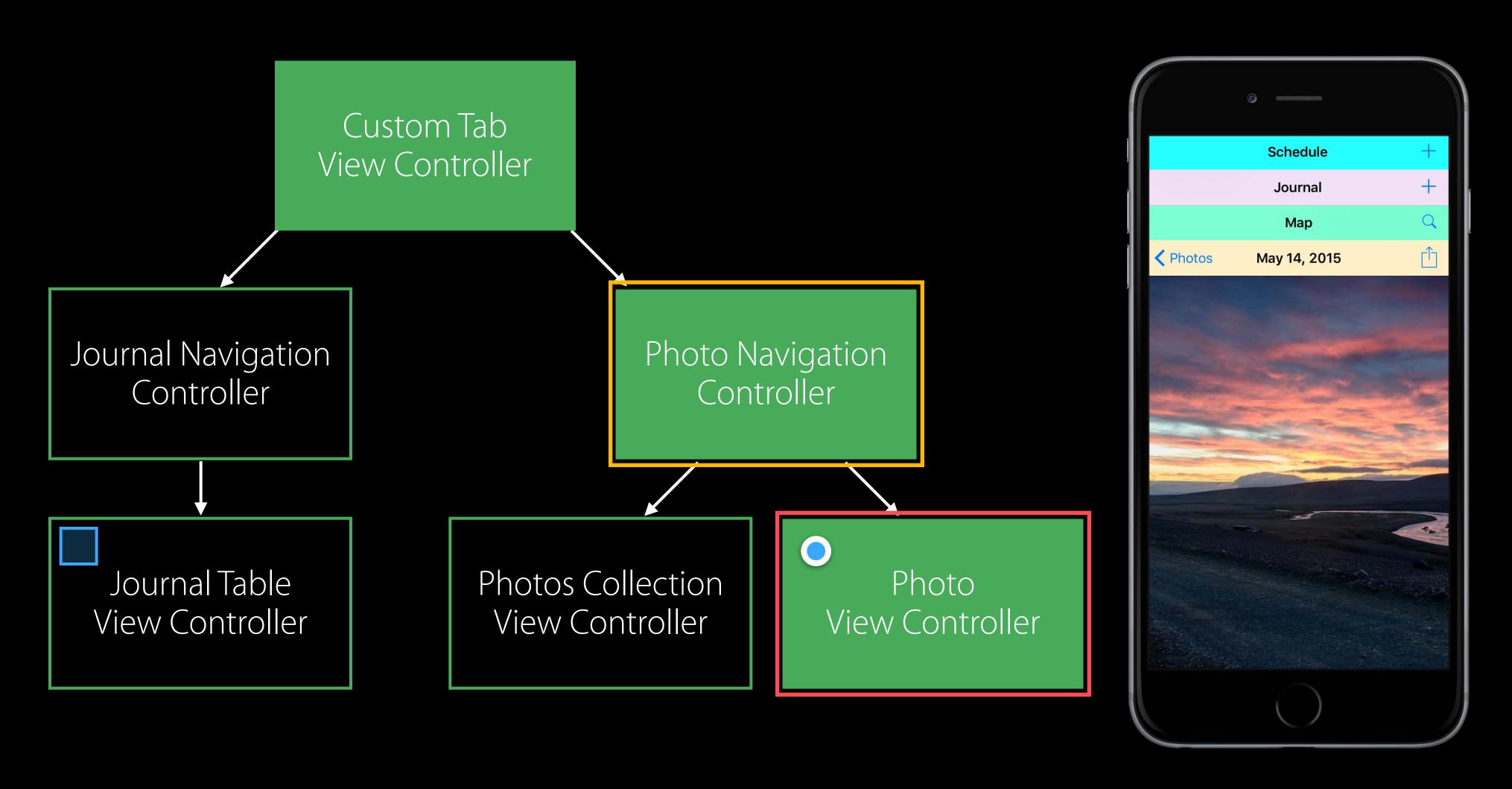


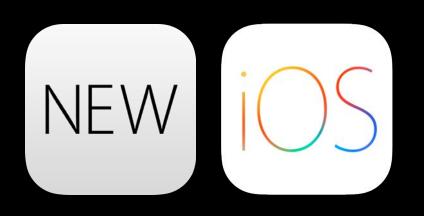


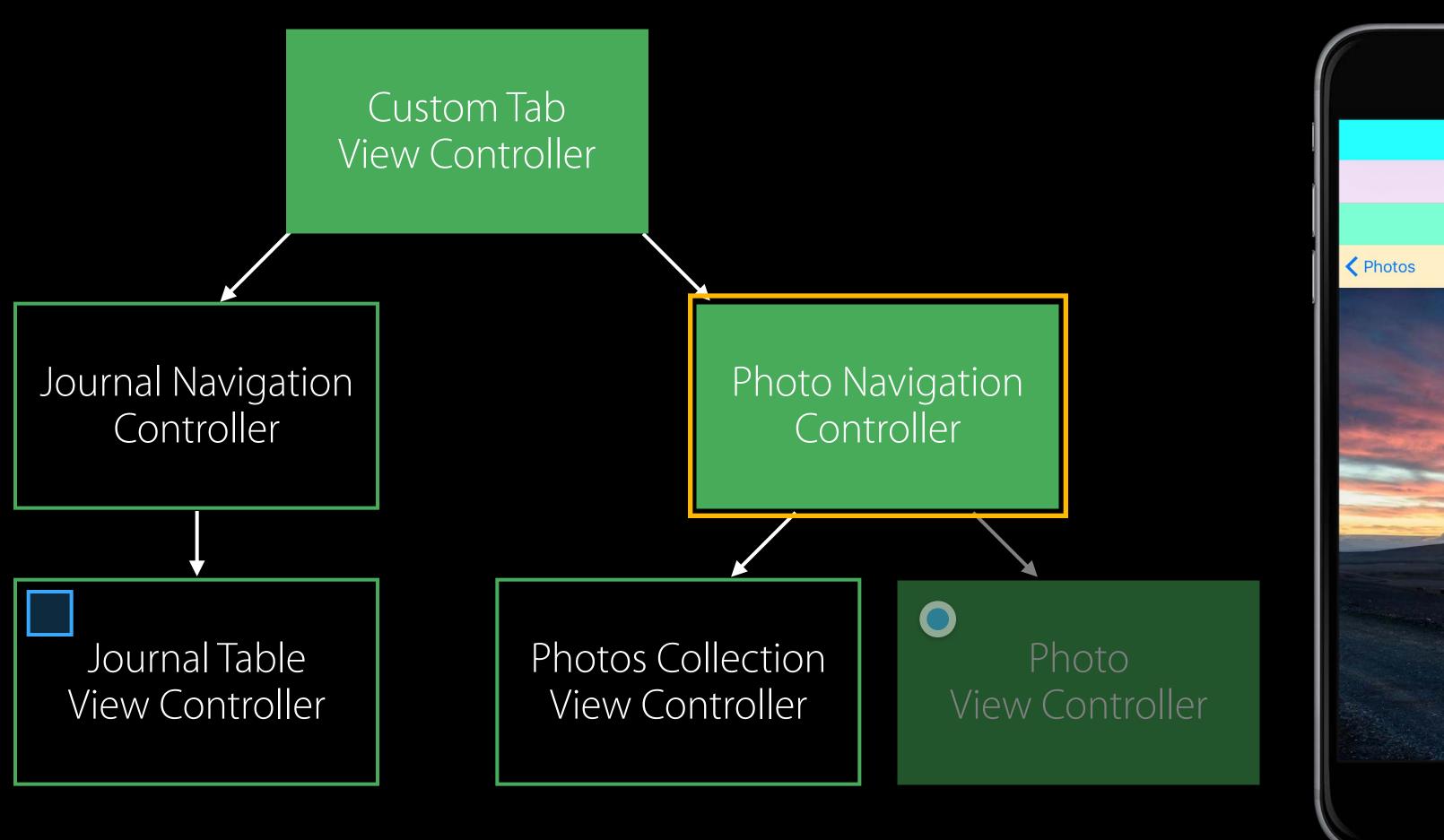




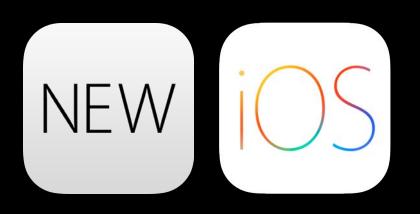


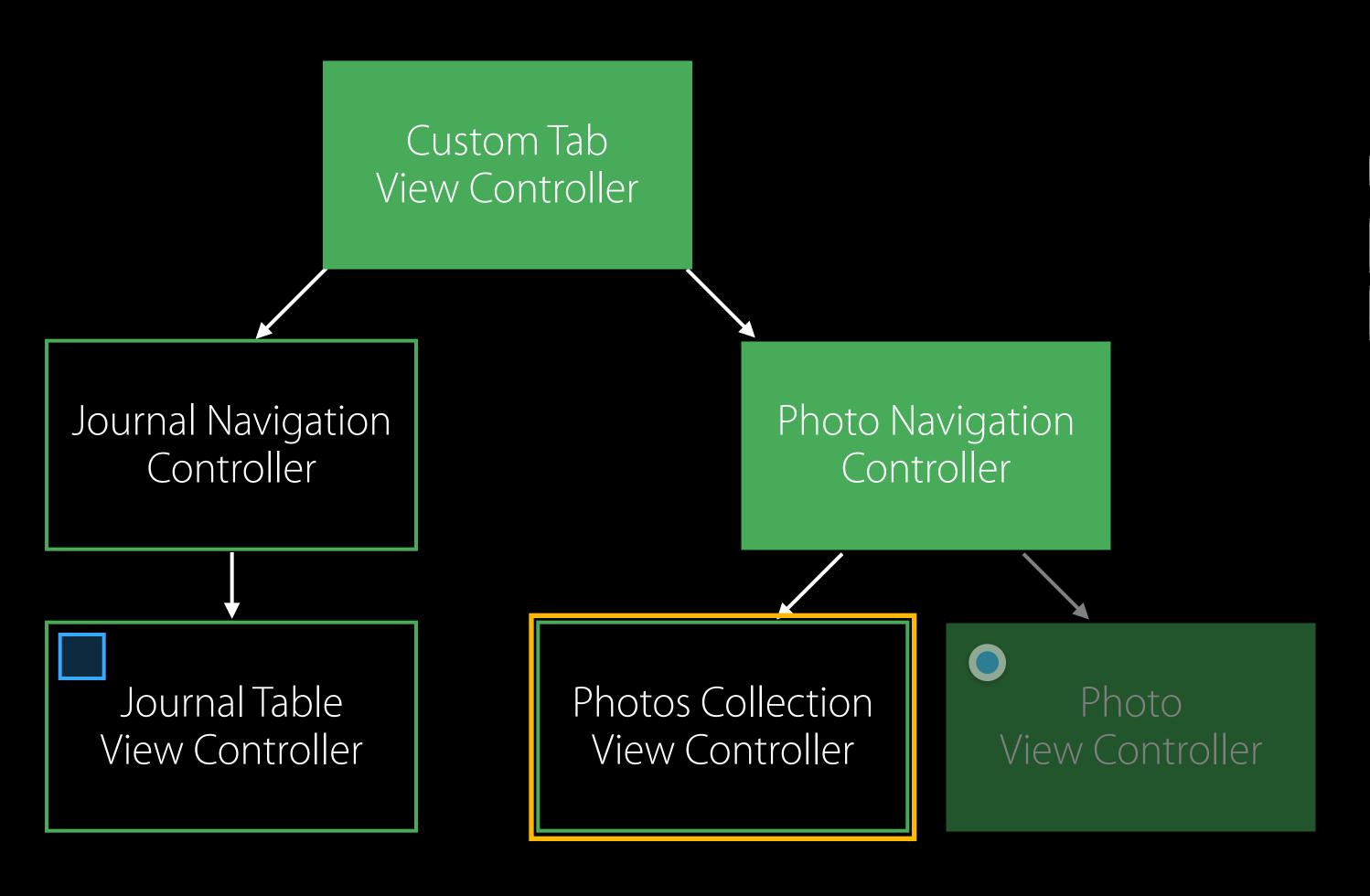


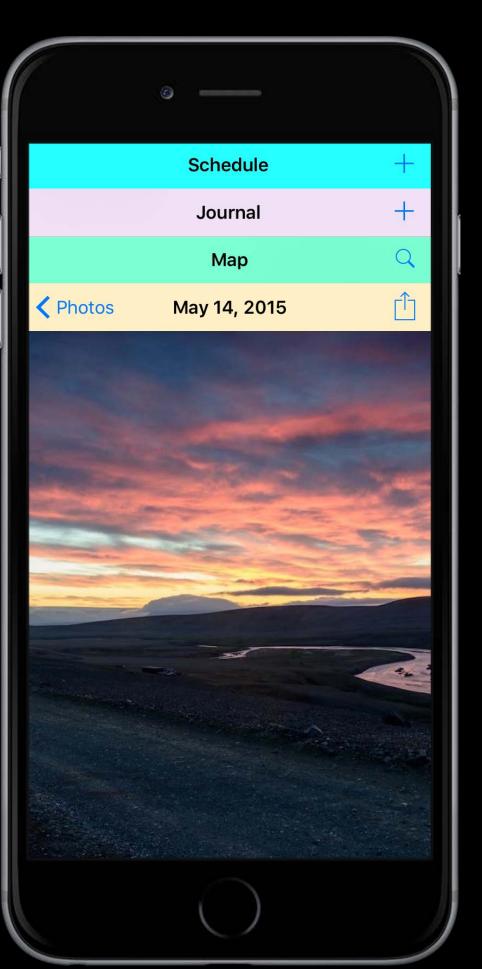






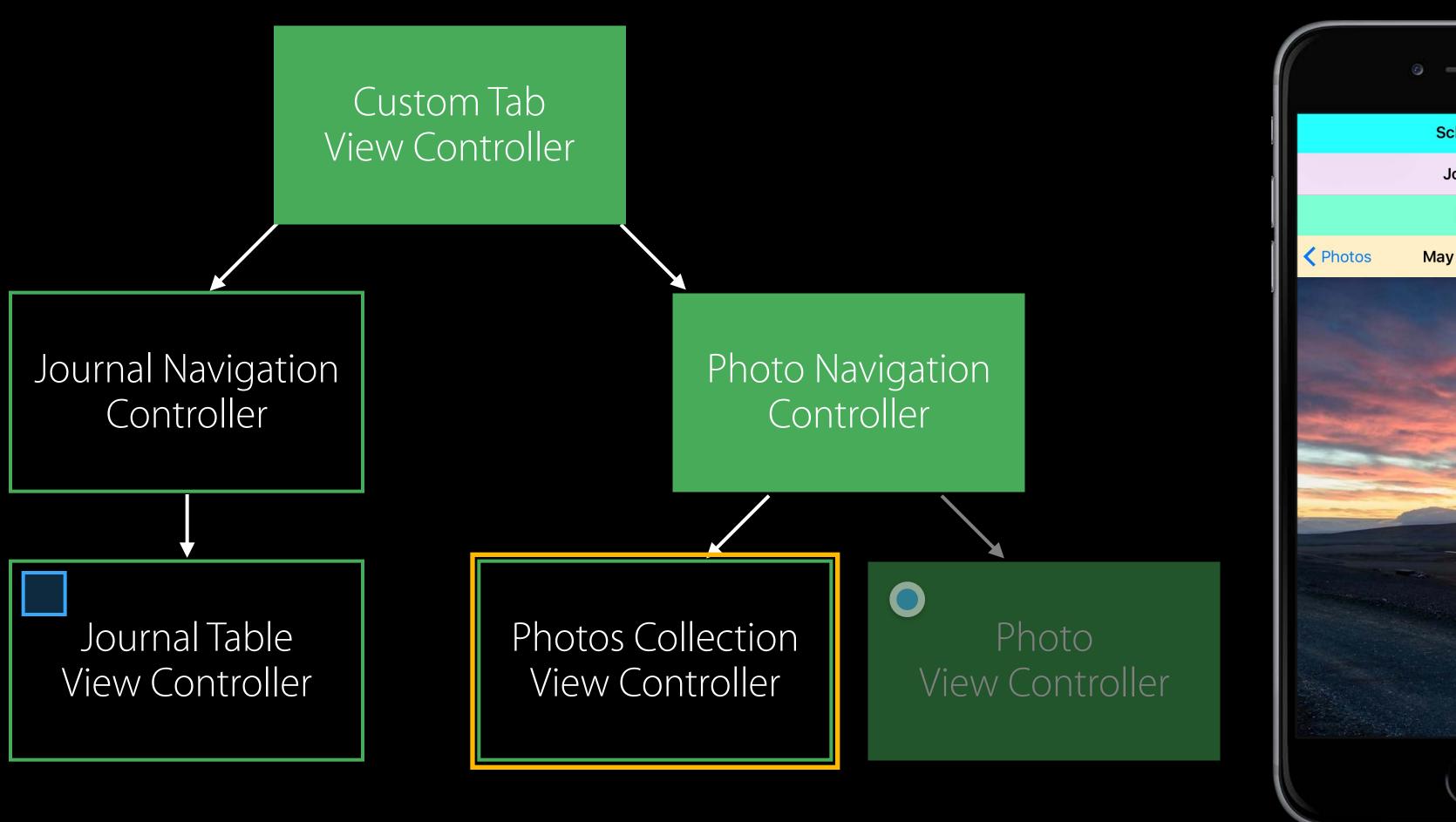


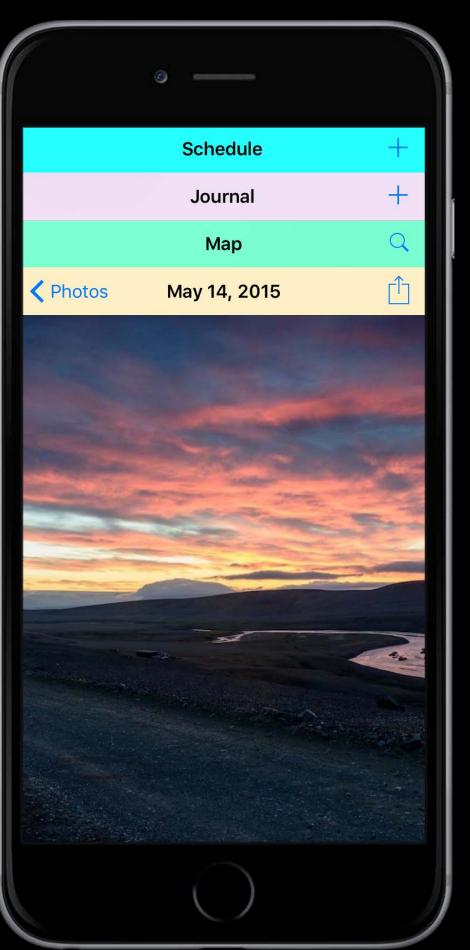


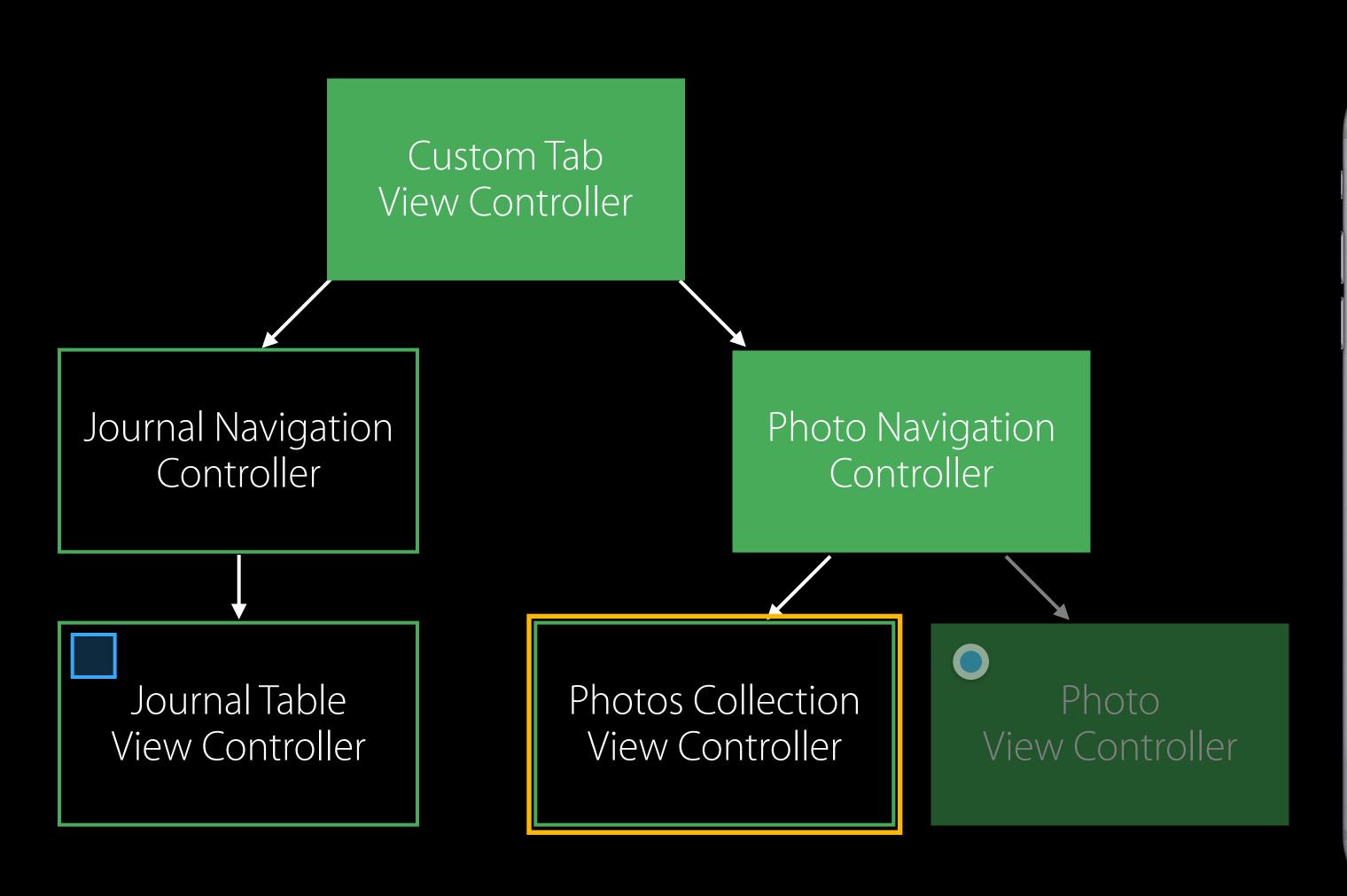


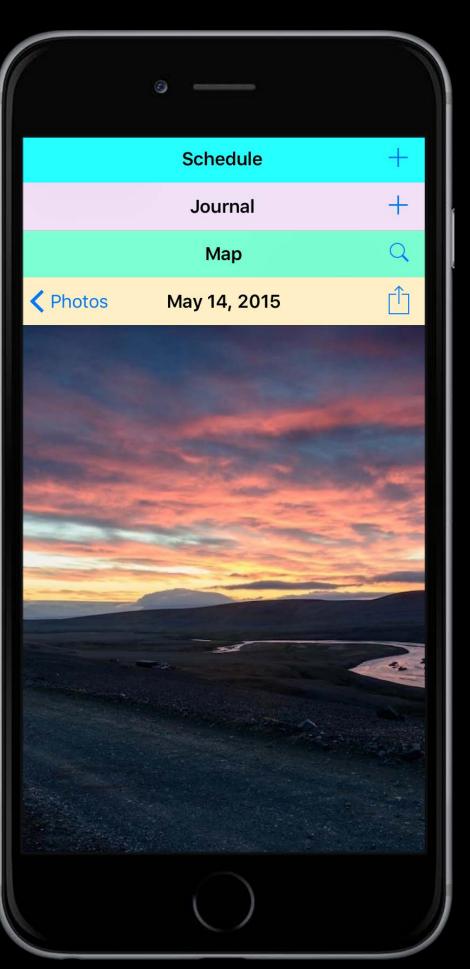


override allowedChildViewControllersForUnwindingFromSource(_:)

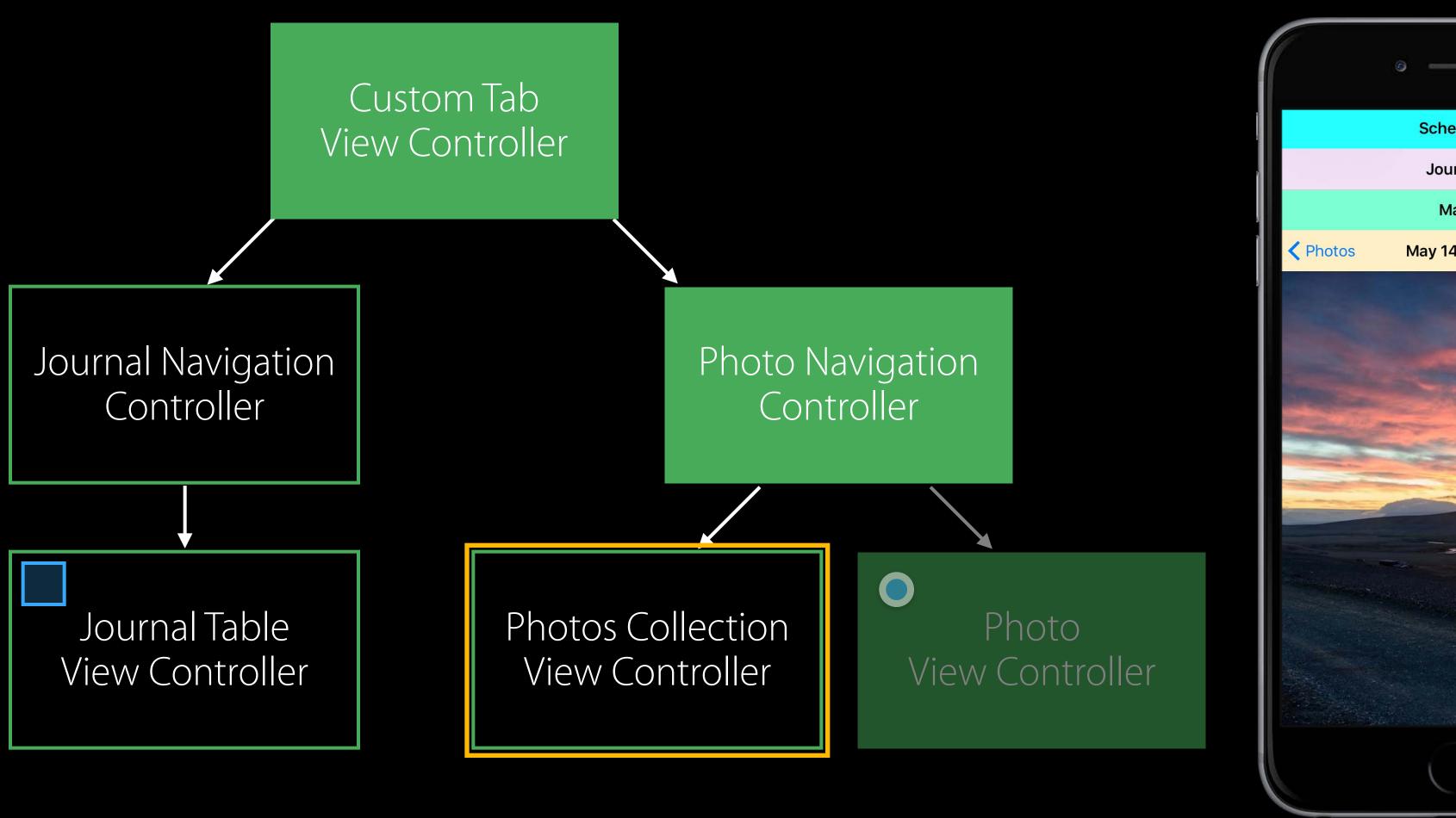


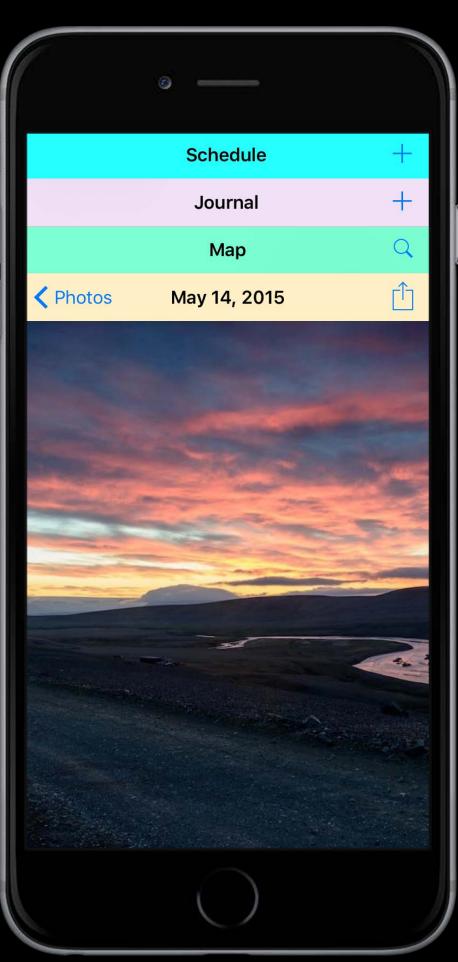




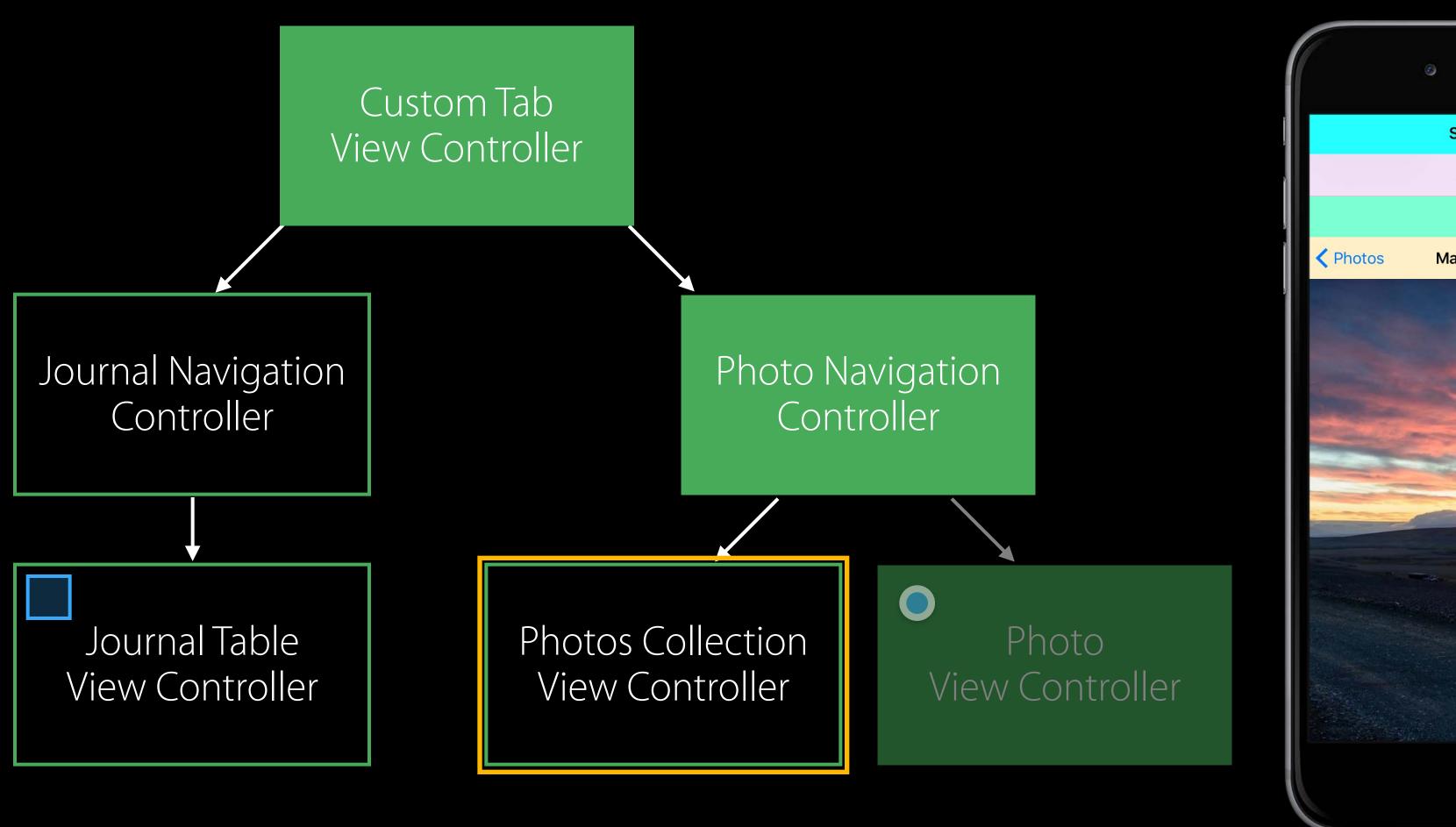


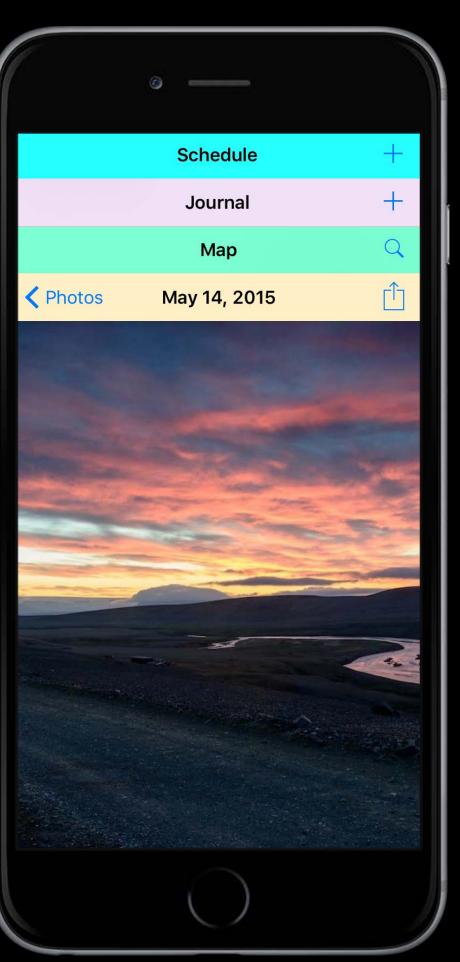
canPerformUnwindSegueAction("iAmTheJournal:", fromViewController:...)

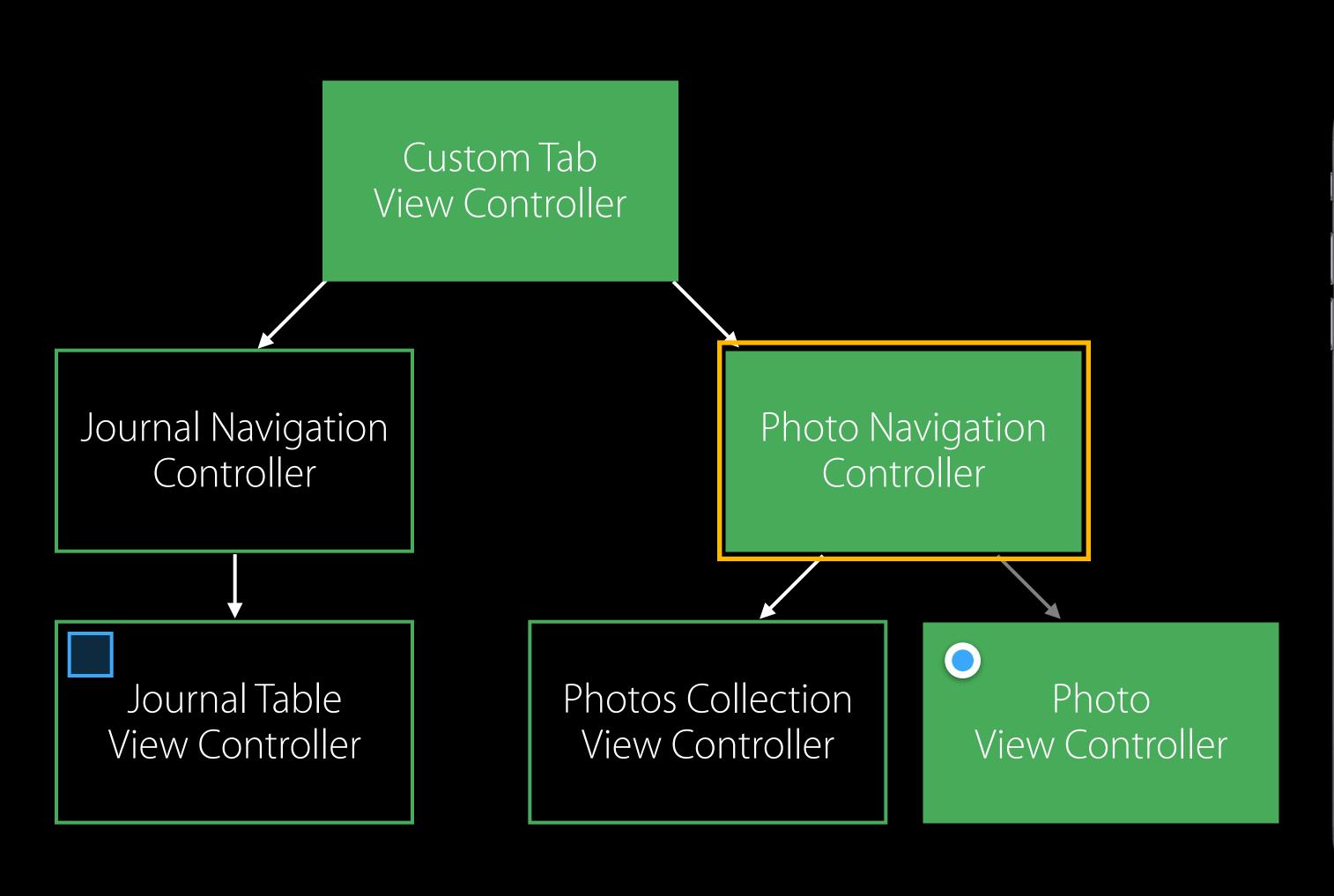


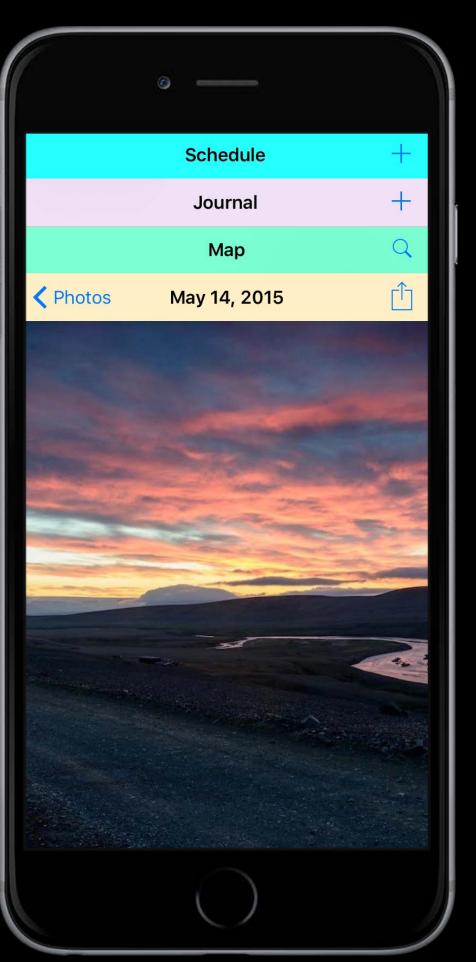


(x) canPerformUnwindSegueAction("iAmTheJournal:", fromViewController:...)

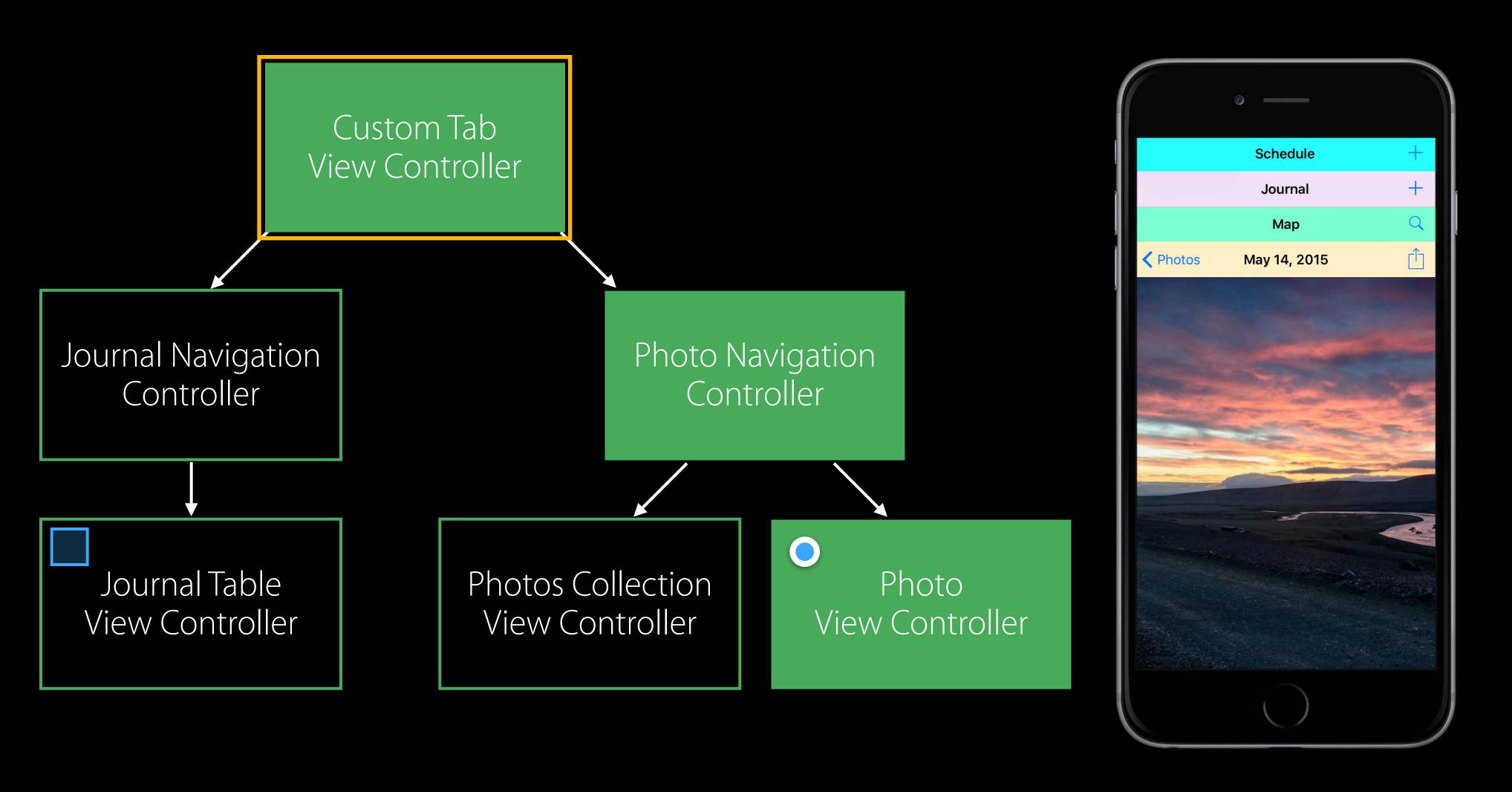


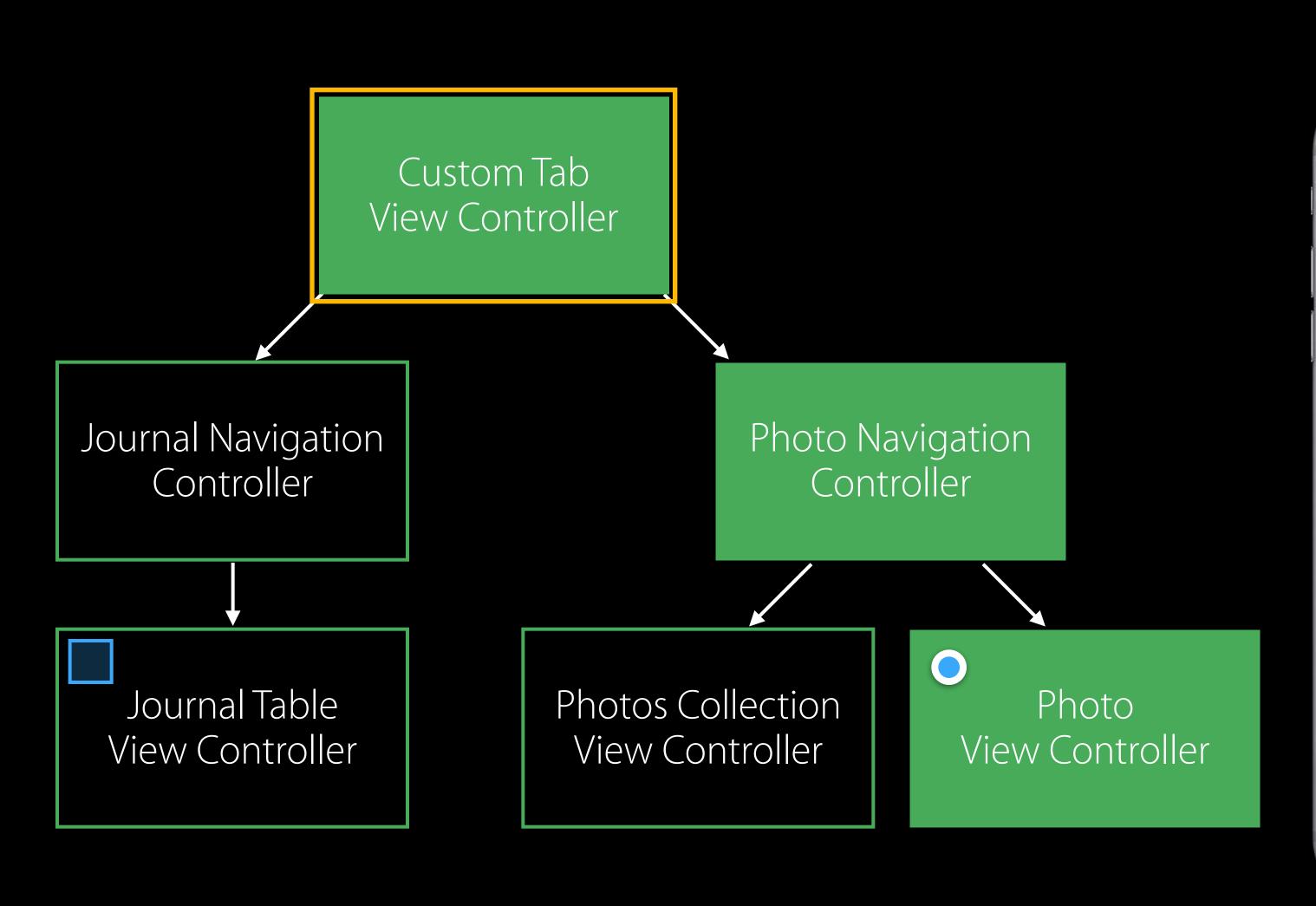


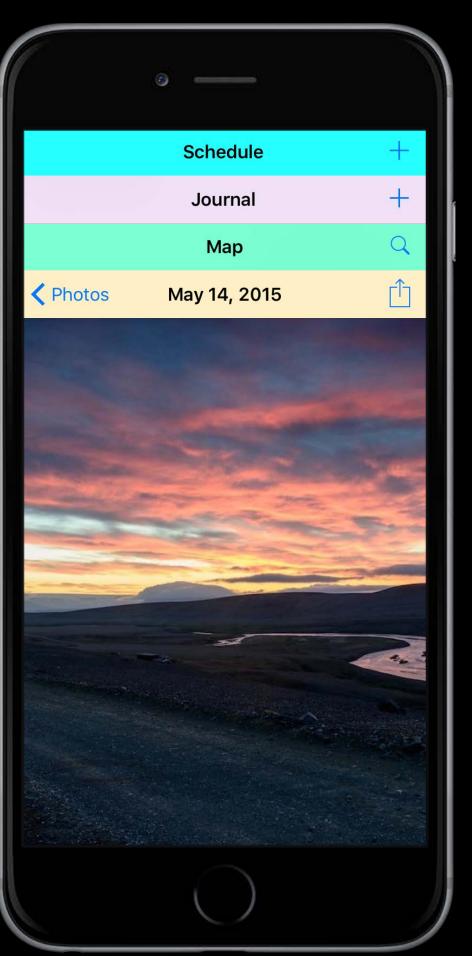


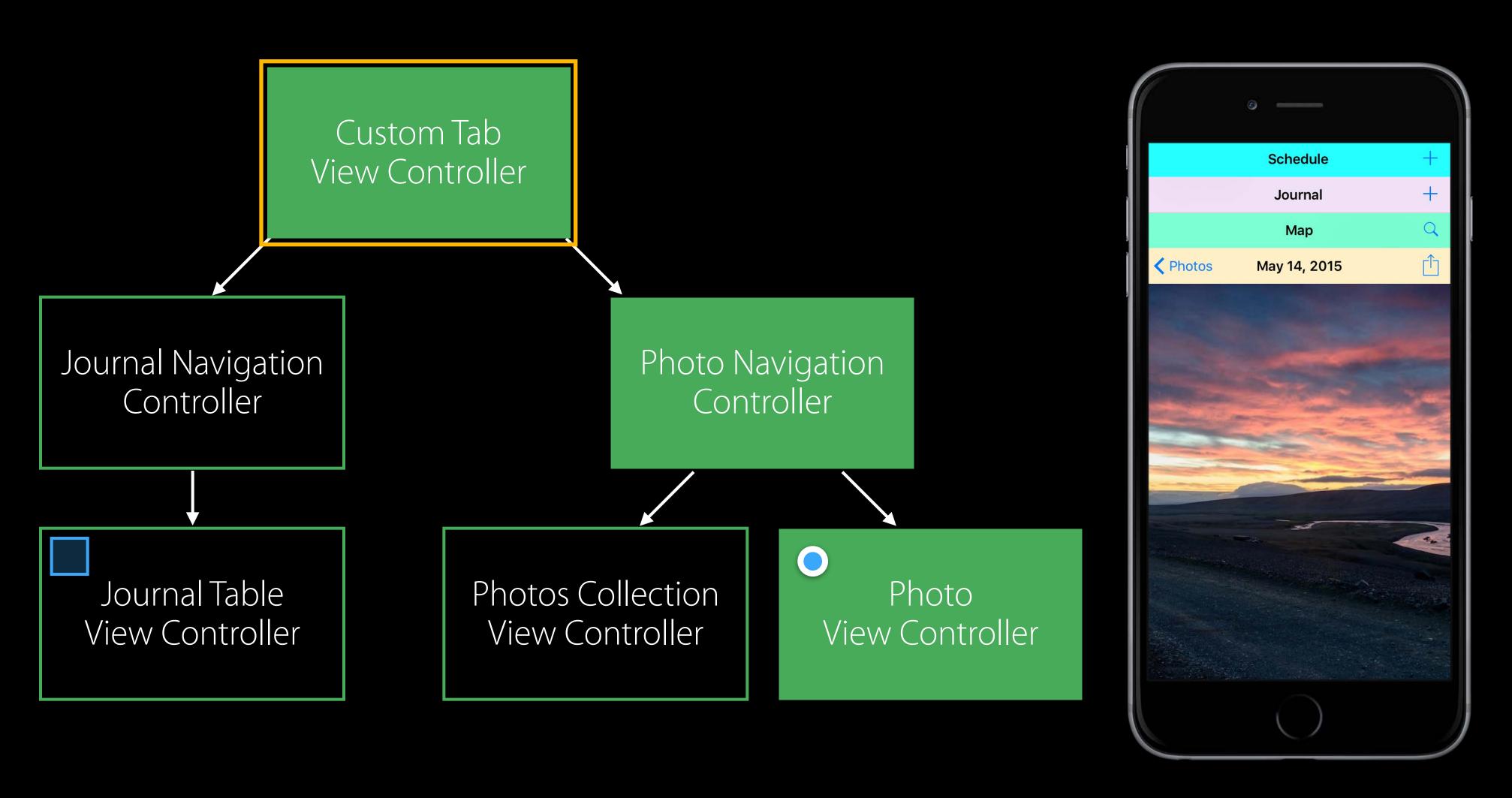


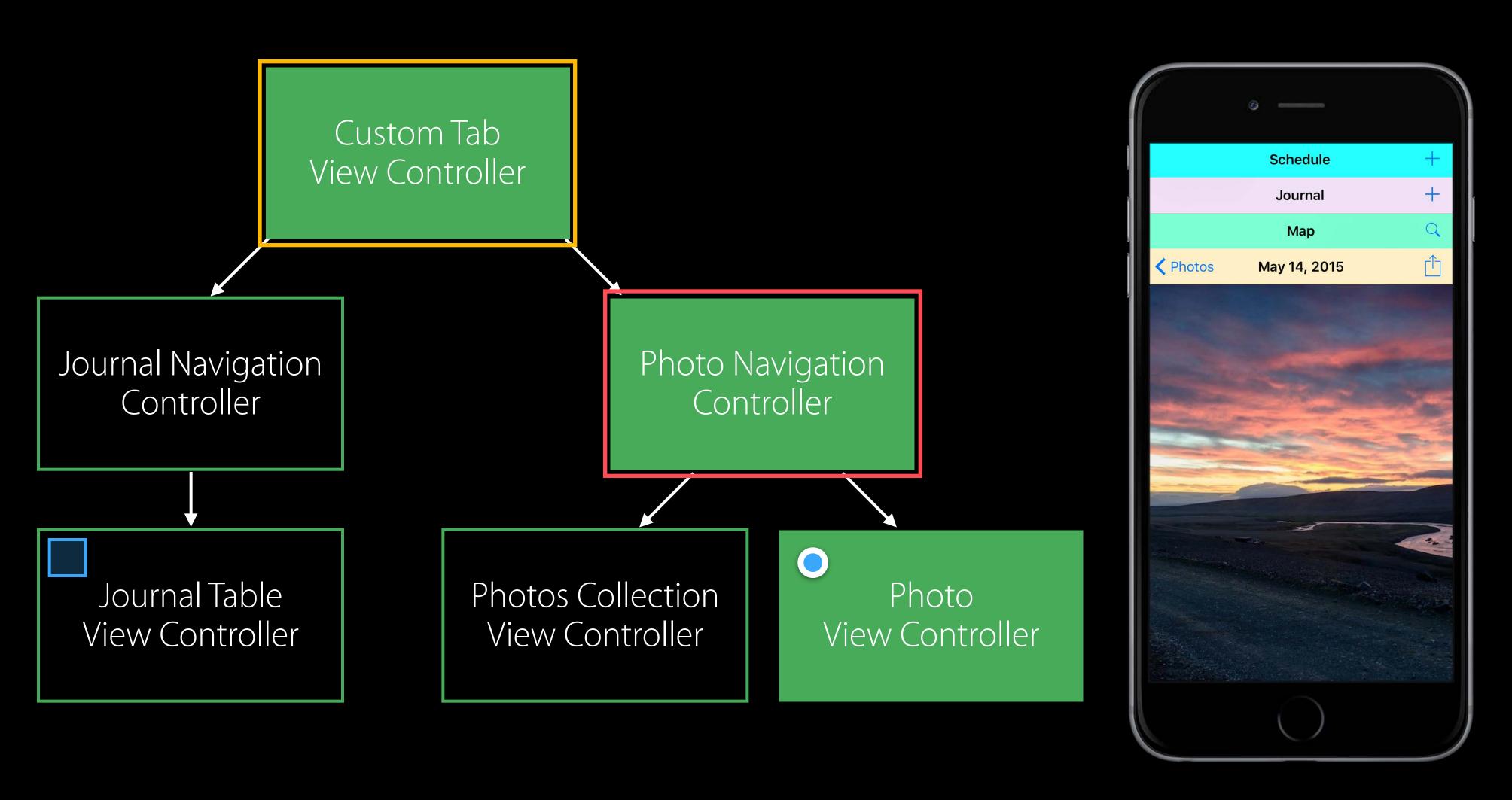
override allowedChildViewControllersForUnwindingFromSource(_:)

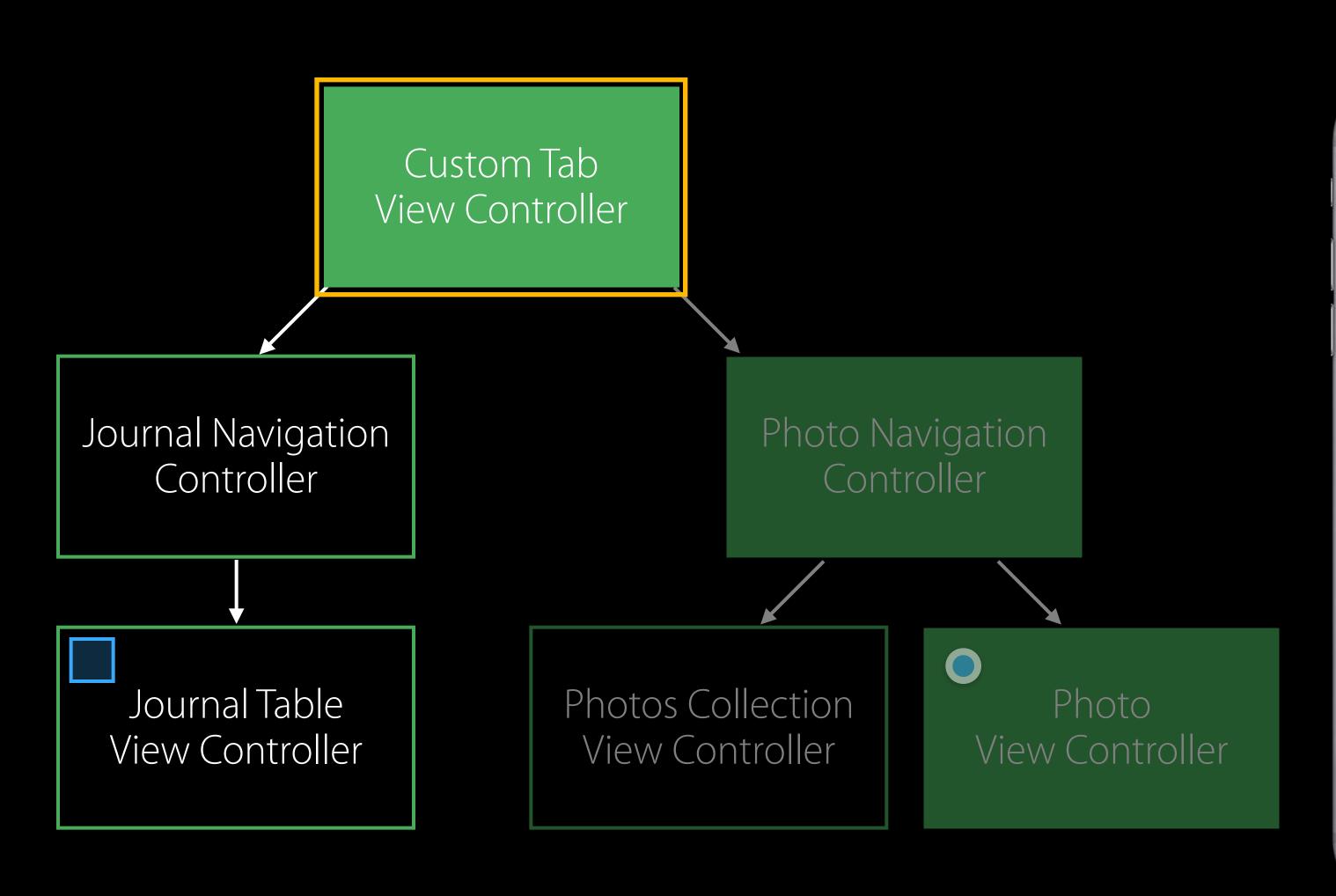


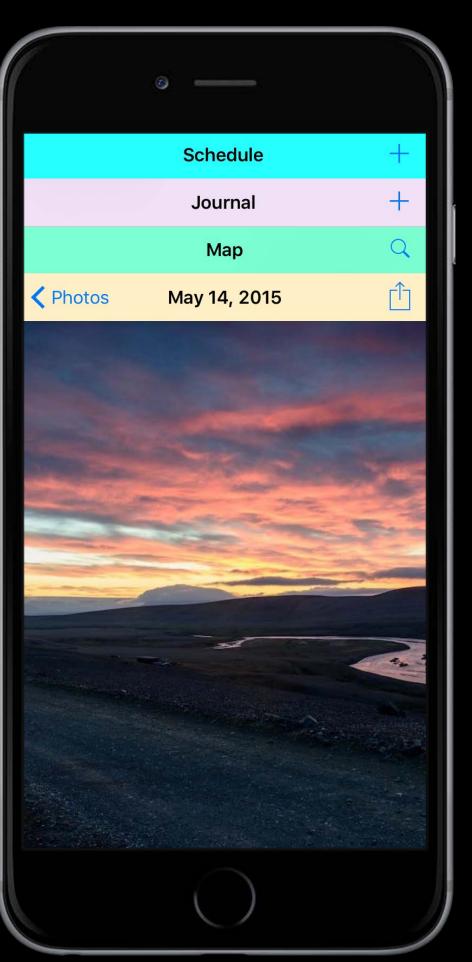


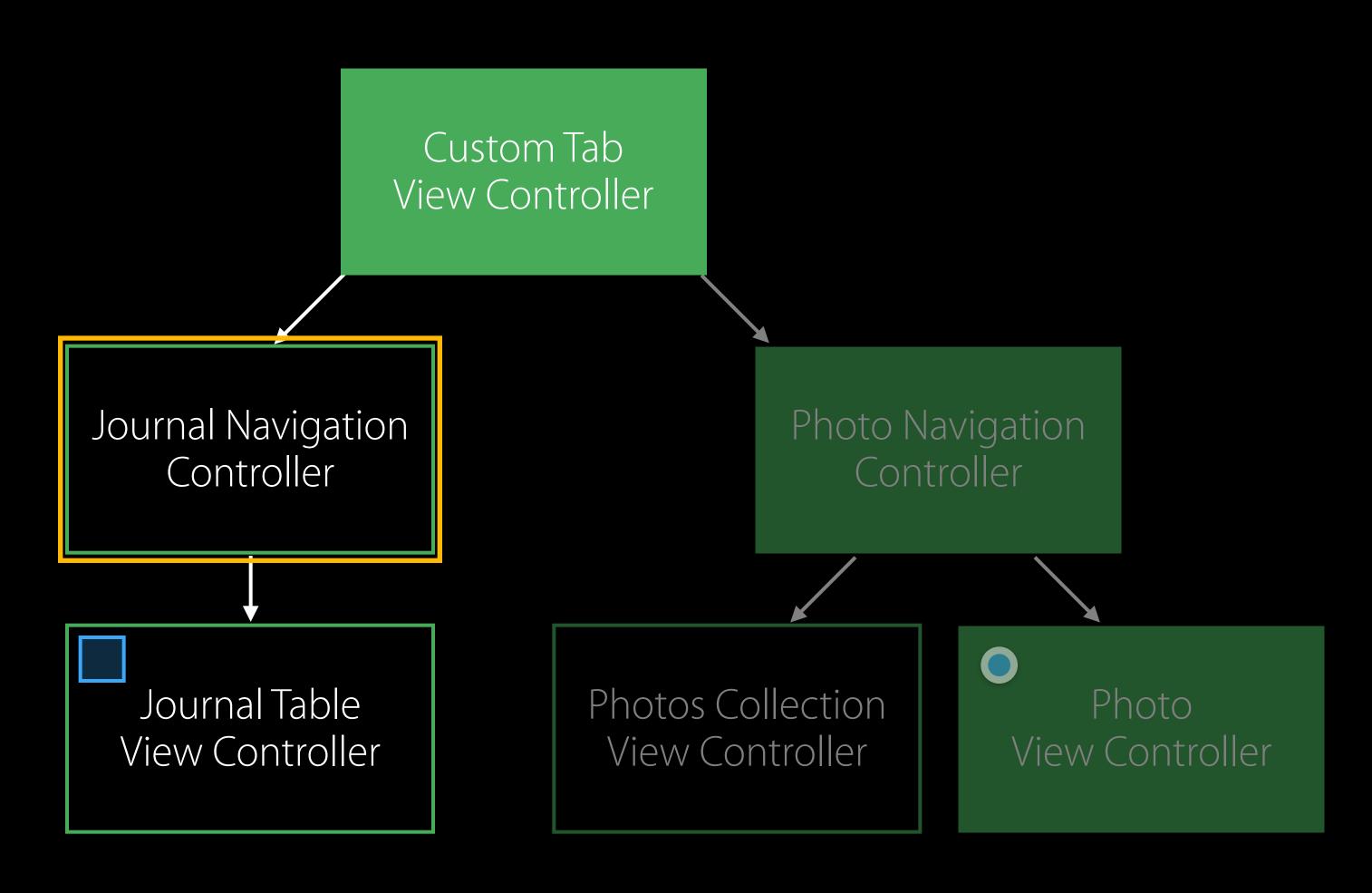


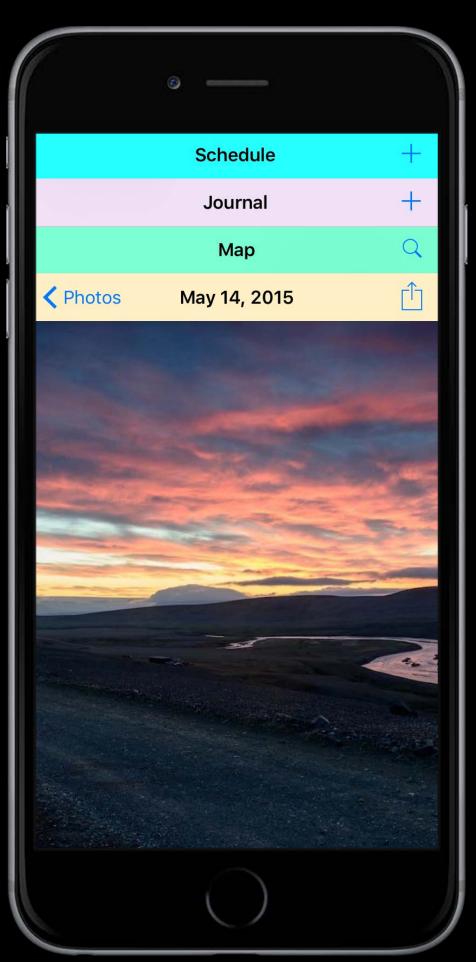




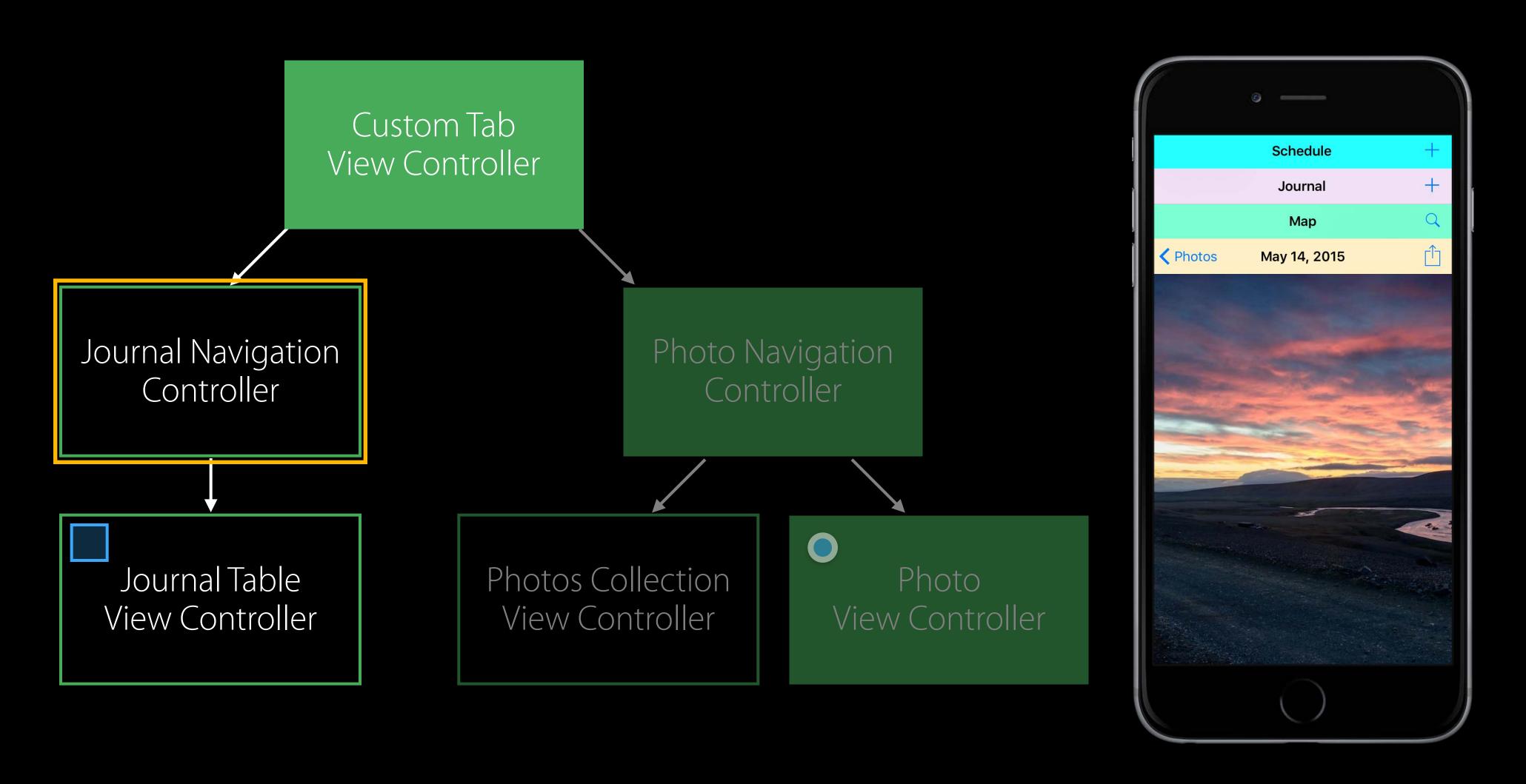




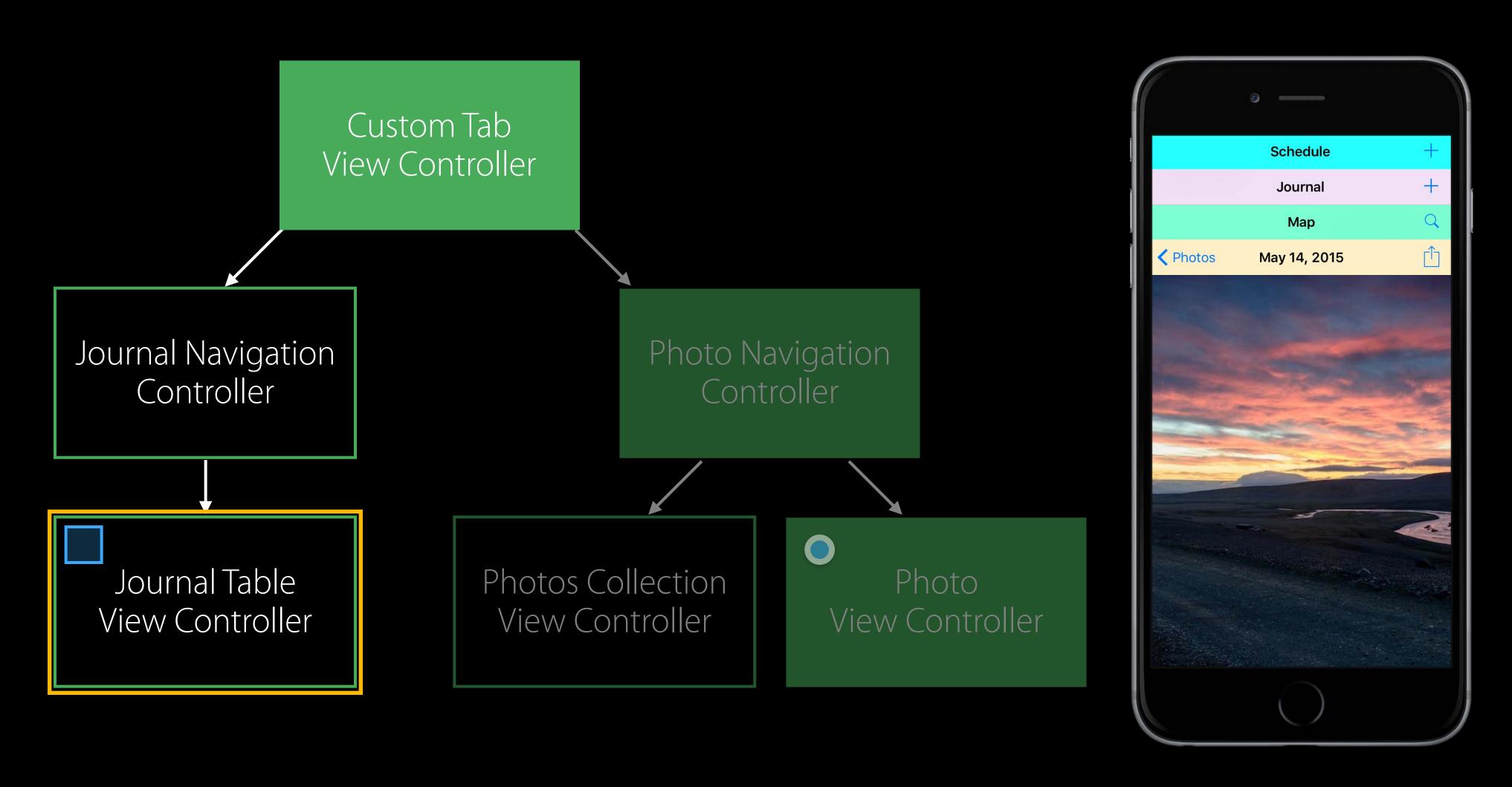


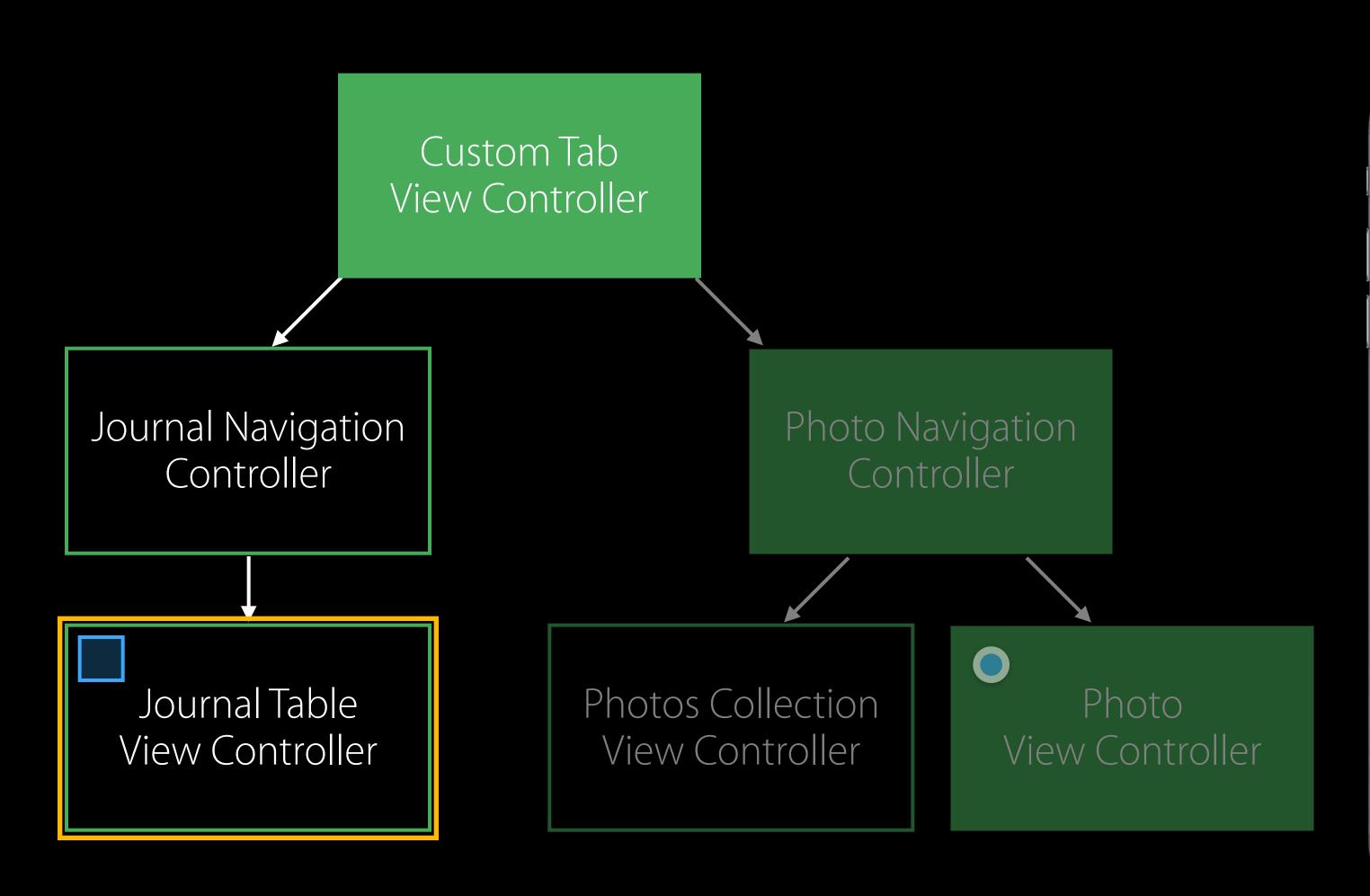


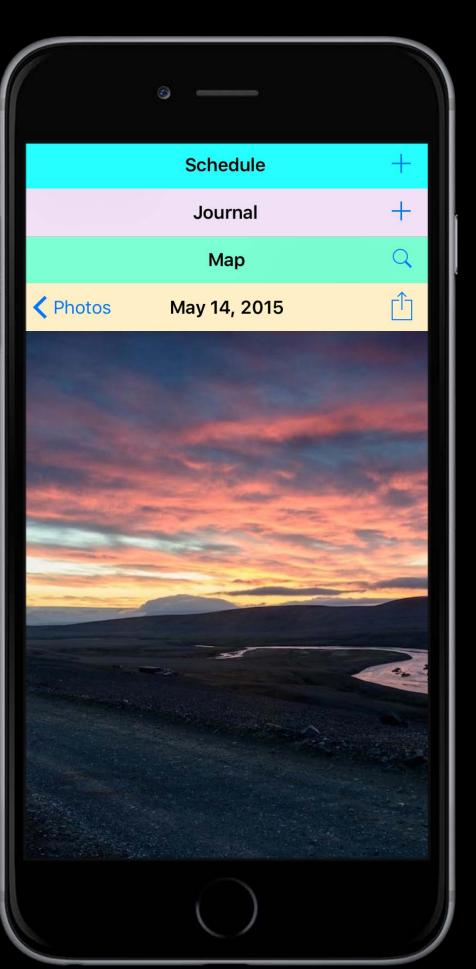
override allowedChildViewControllersForUnwindingFromSource(_:)



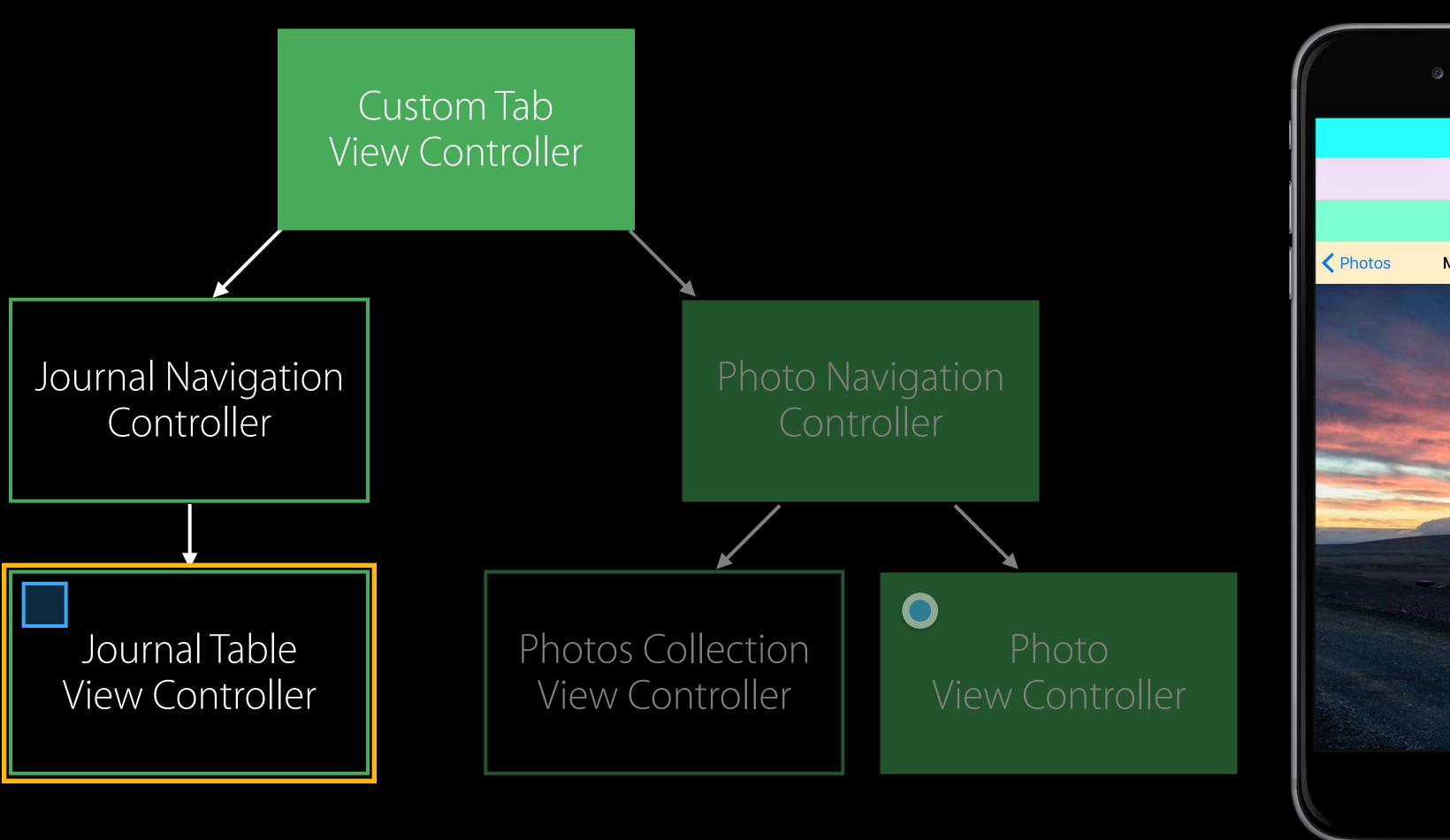
override allowedChildViewControllersForUnwindingFromSource(_:)

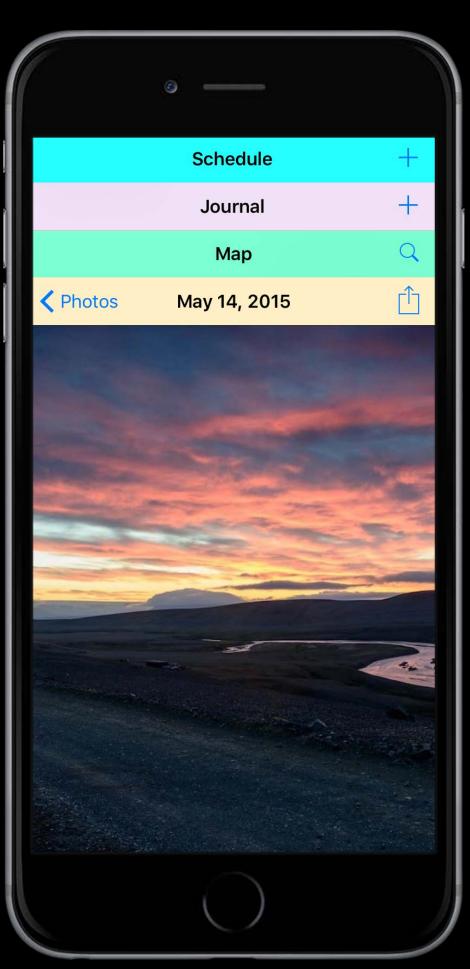




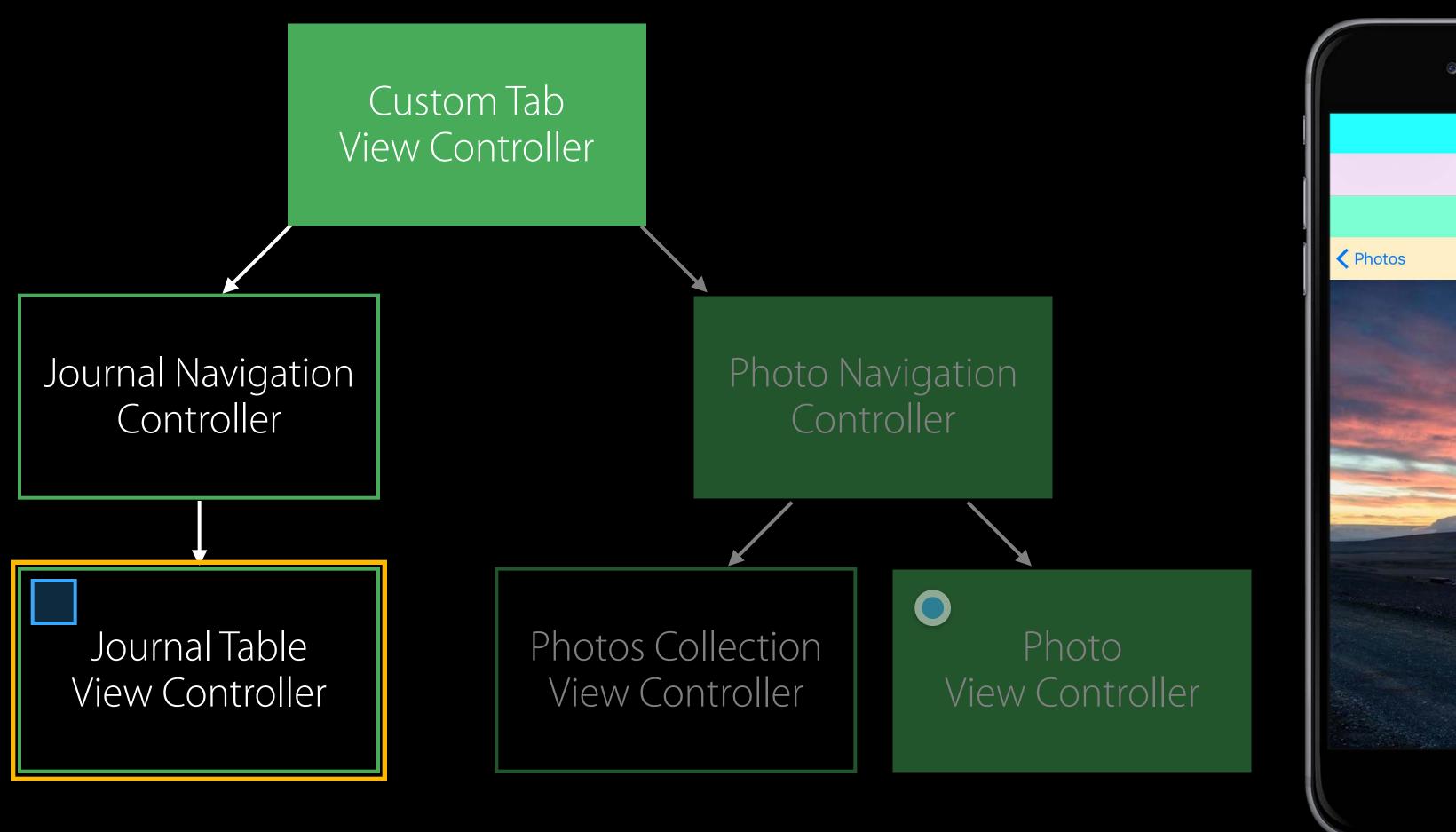


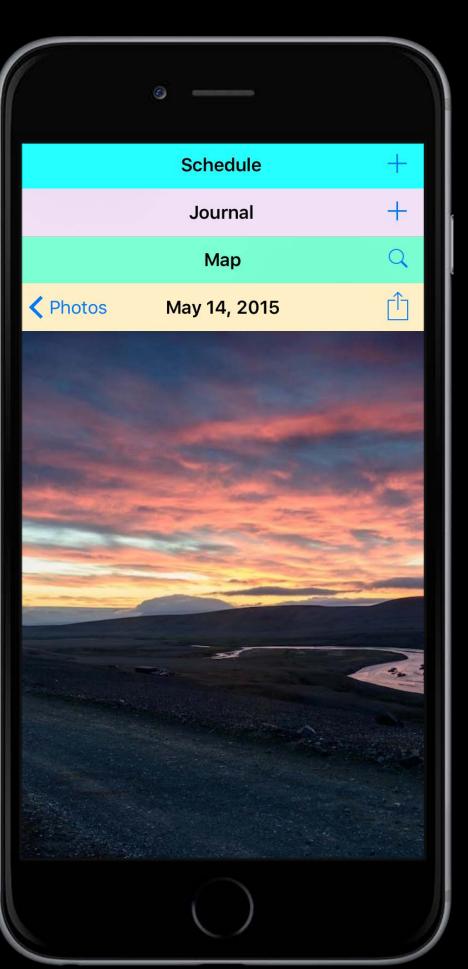
canPerformUnwindSegueAction("iAmTheJournal:", fromViewController:...)

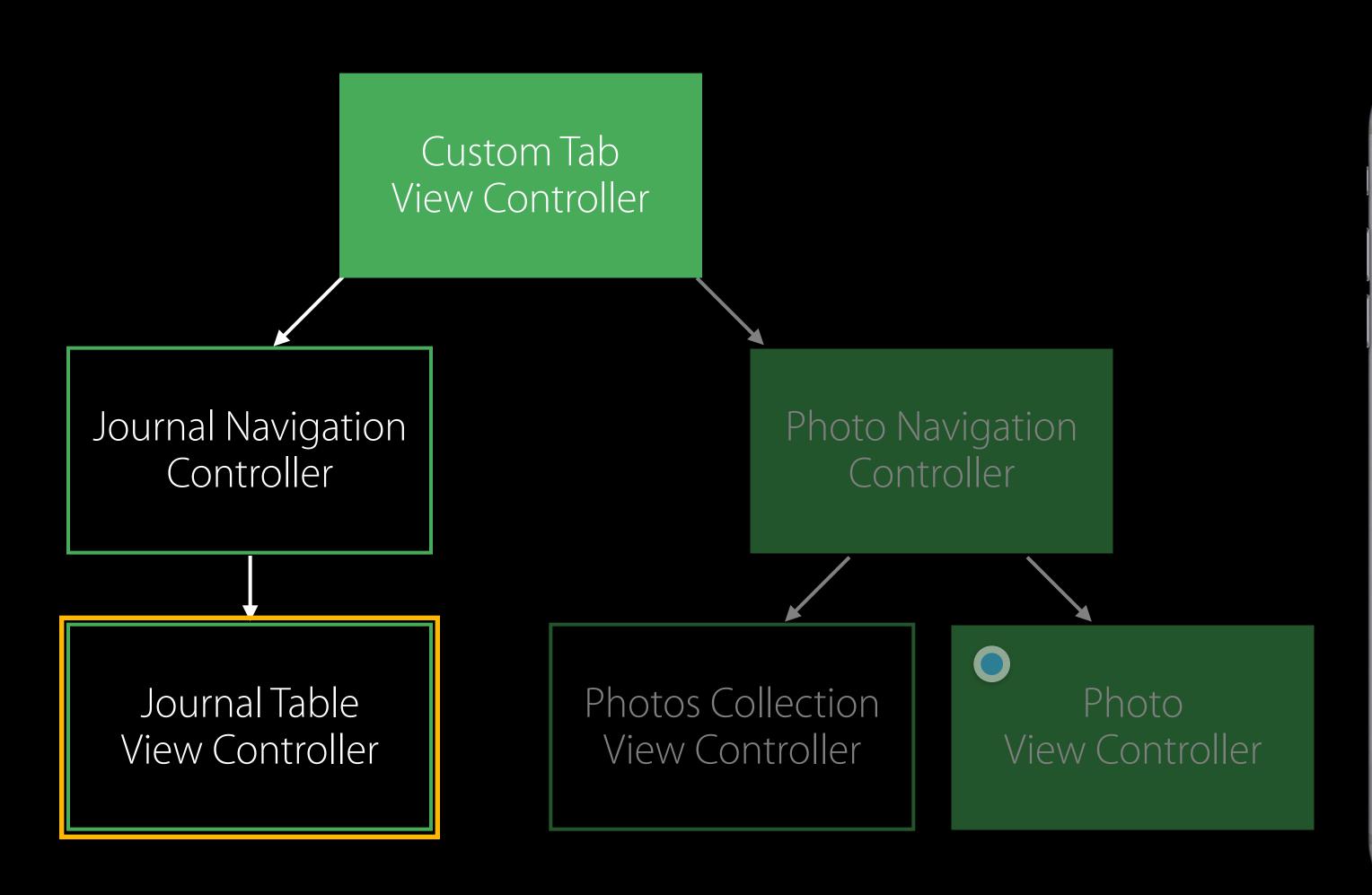


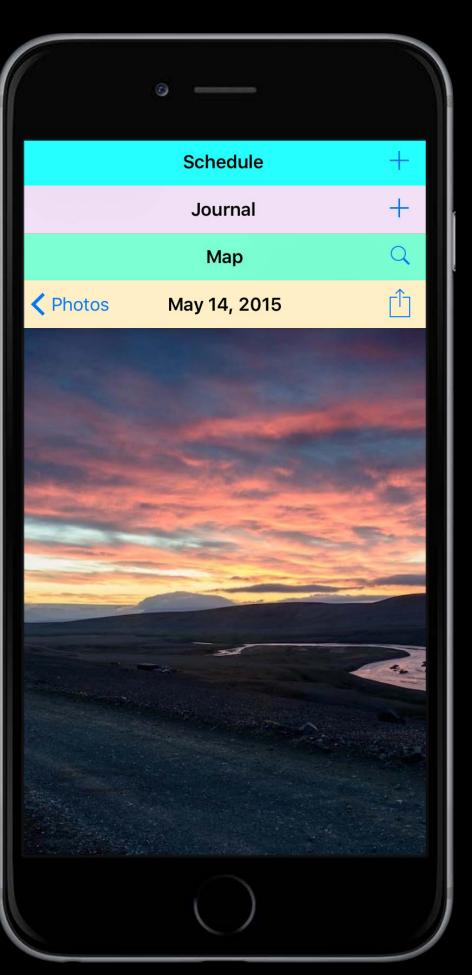


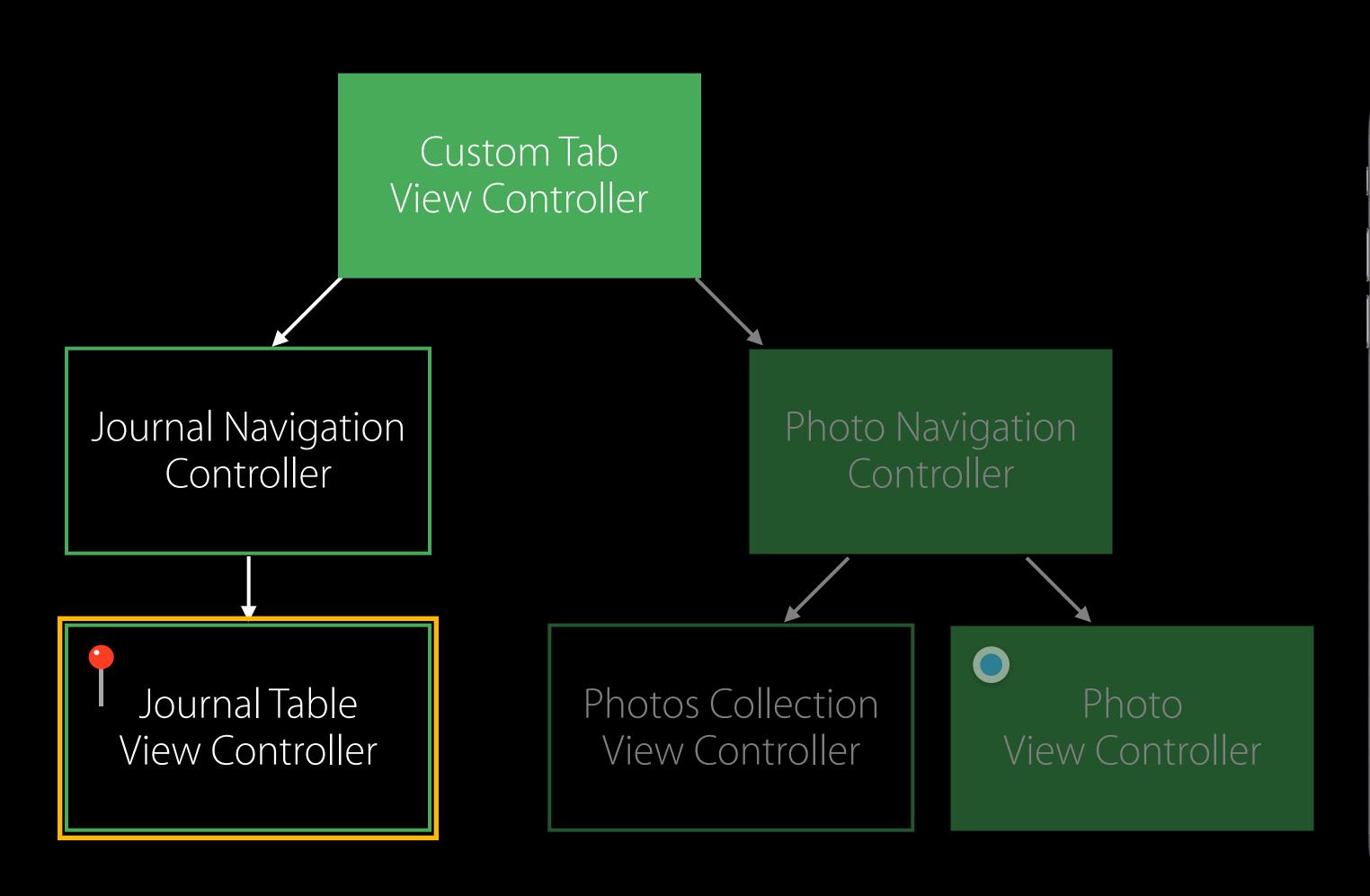
canPerformUnwindSegueAction("iAmTheJournal:", fromViewController:...)

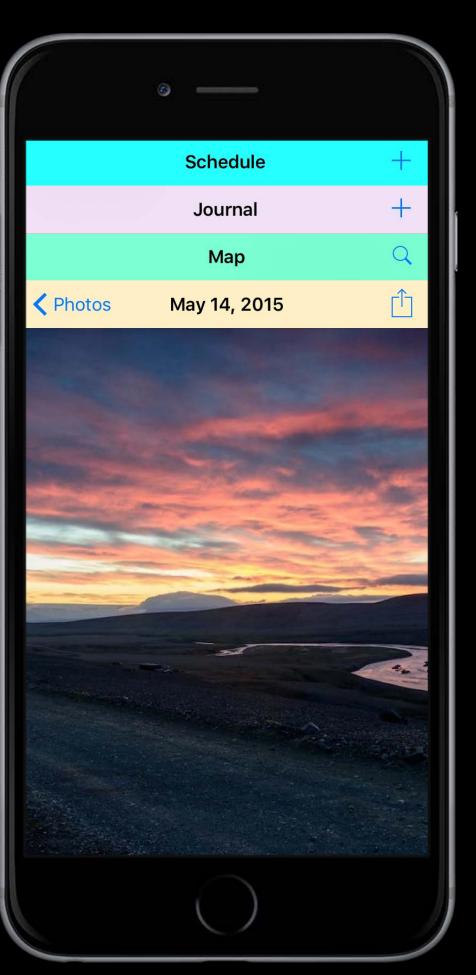


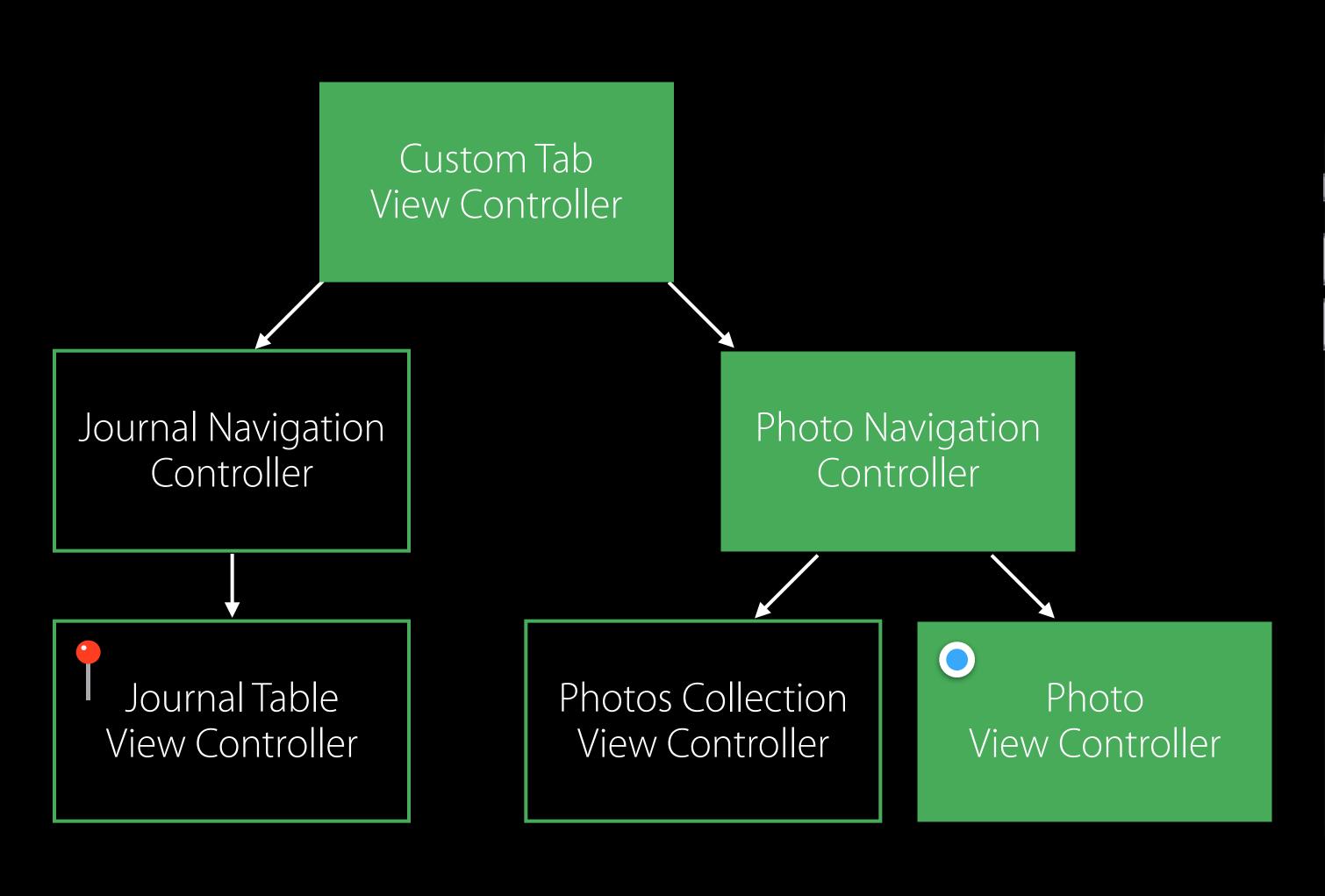


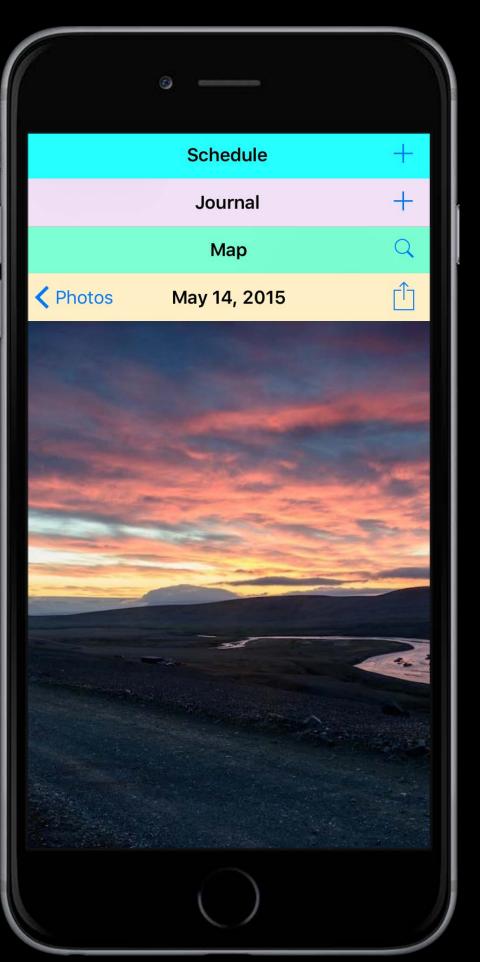






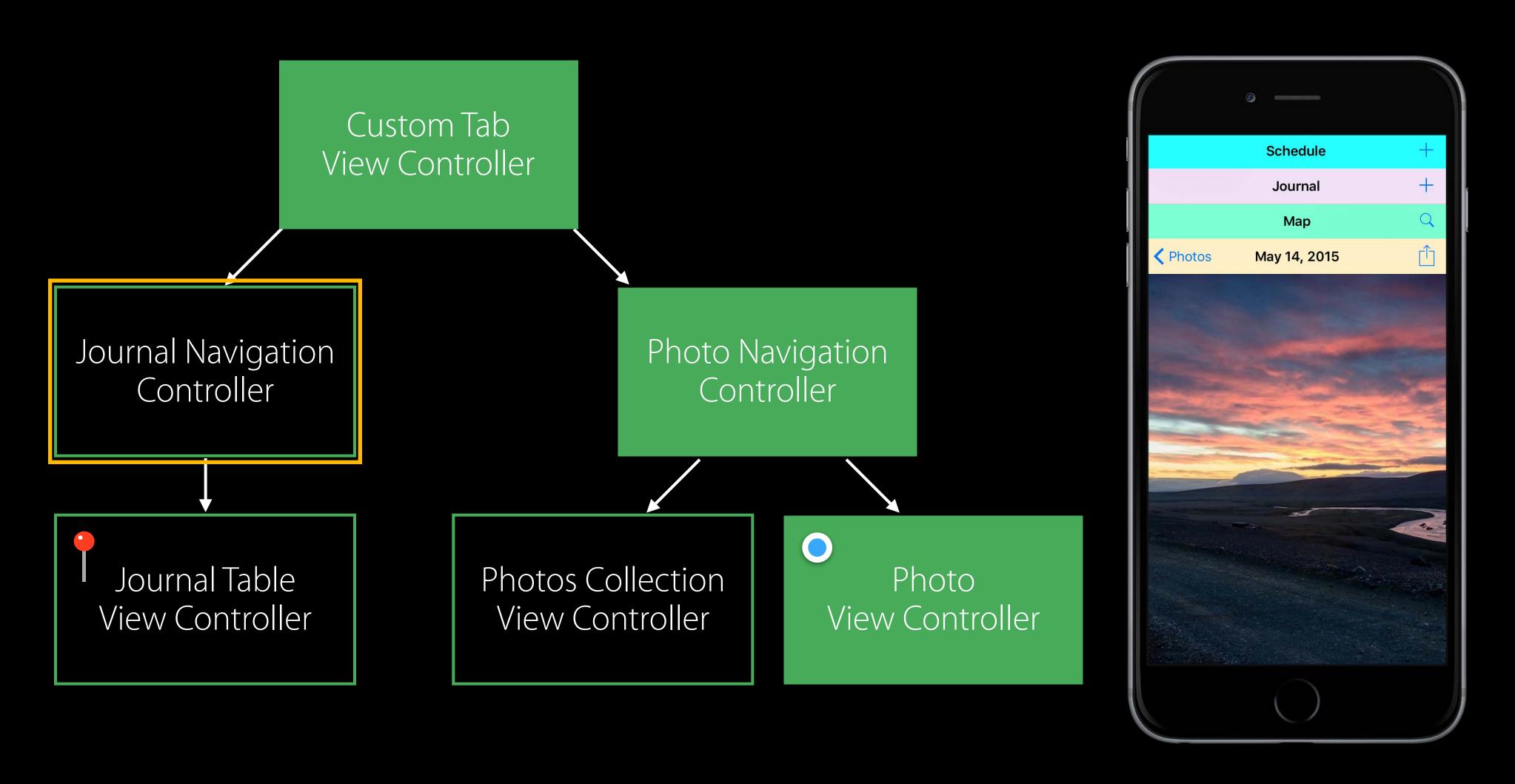


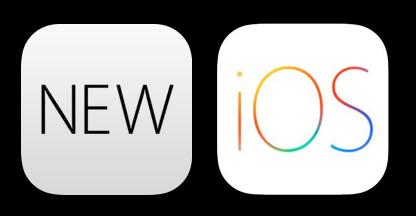


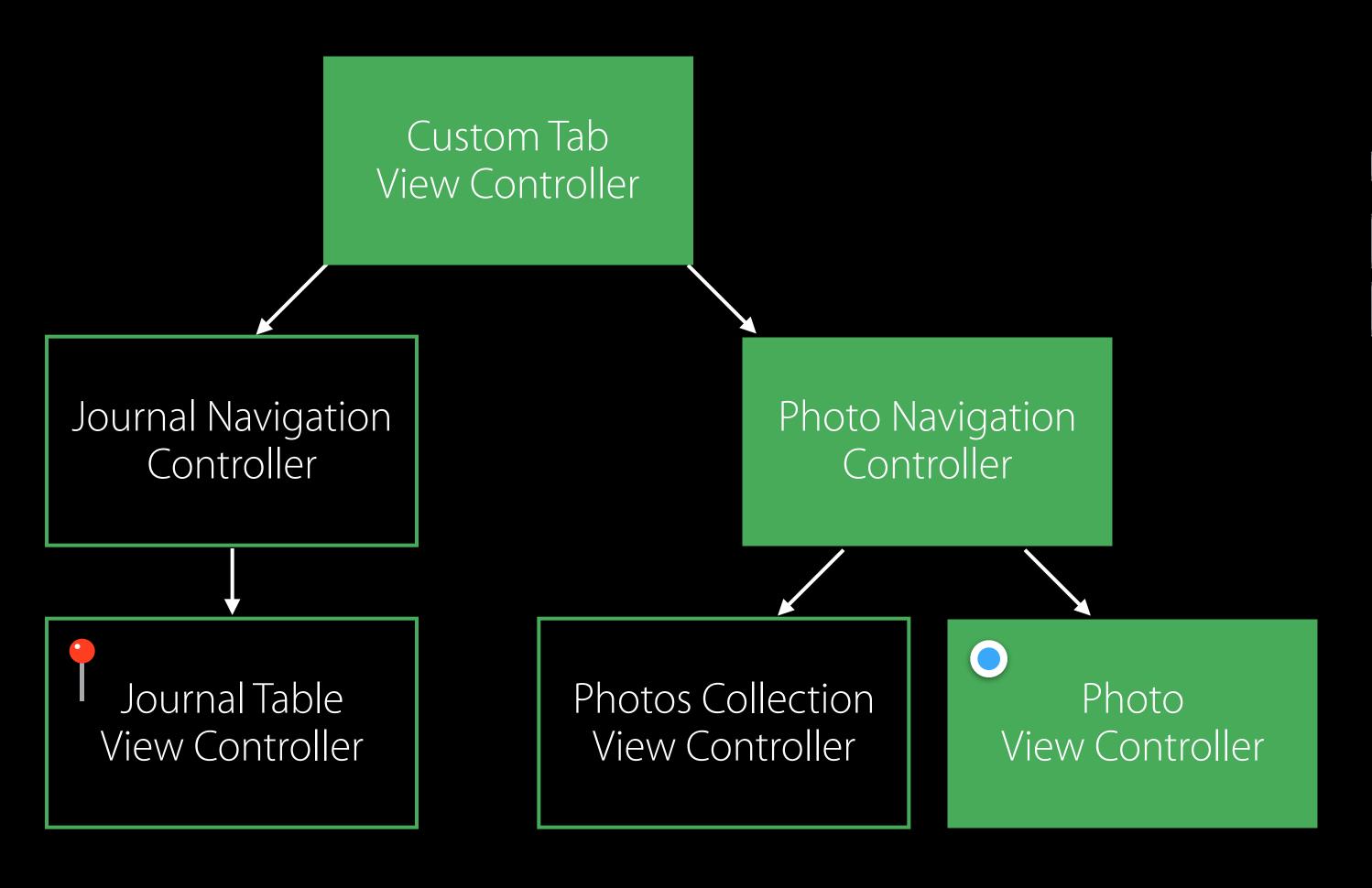


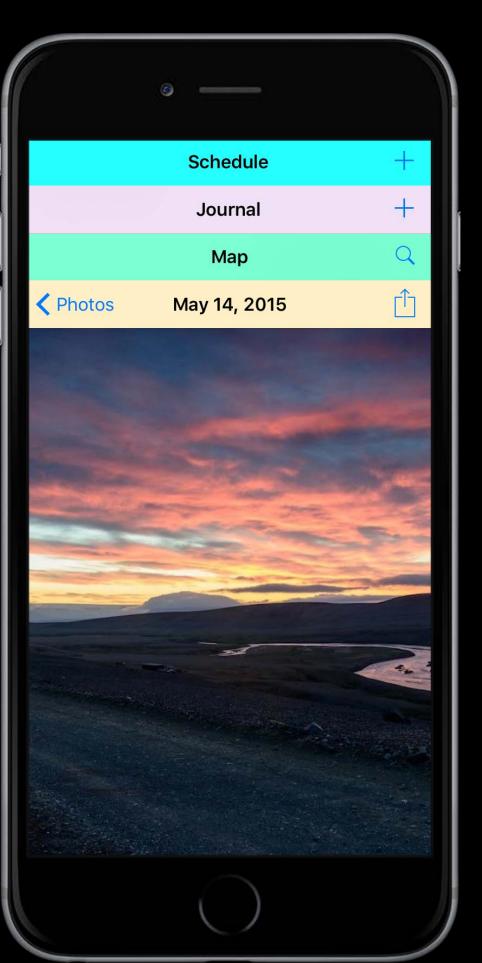


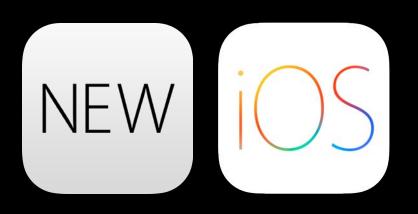
override segueForUnwindingToViewController(_:fromViewController:identifier:)

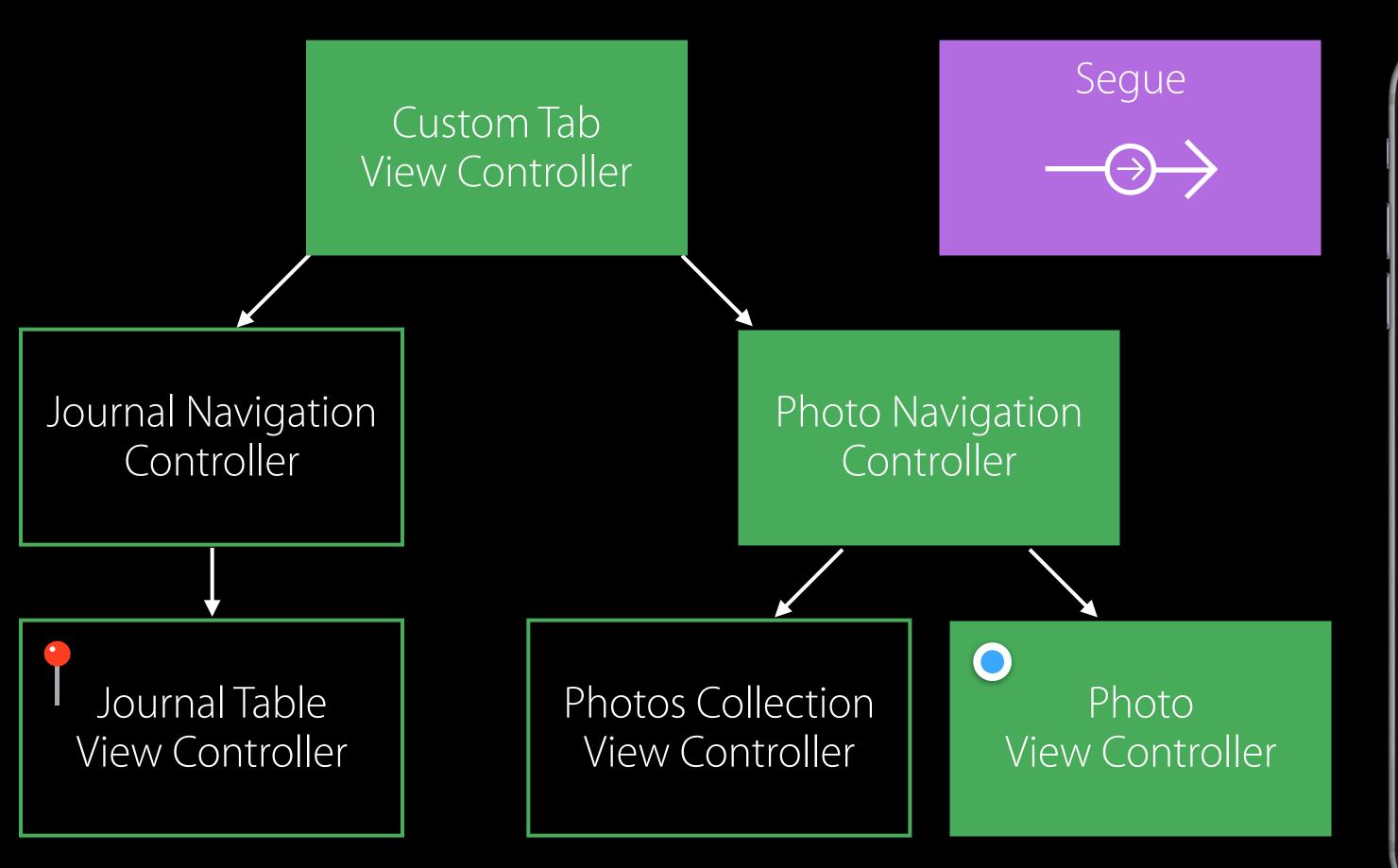


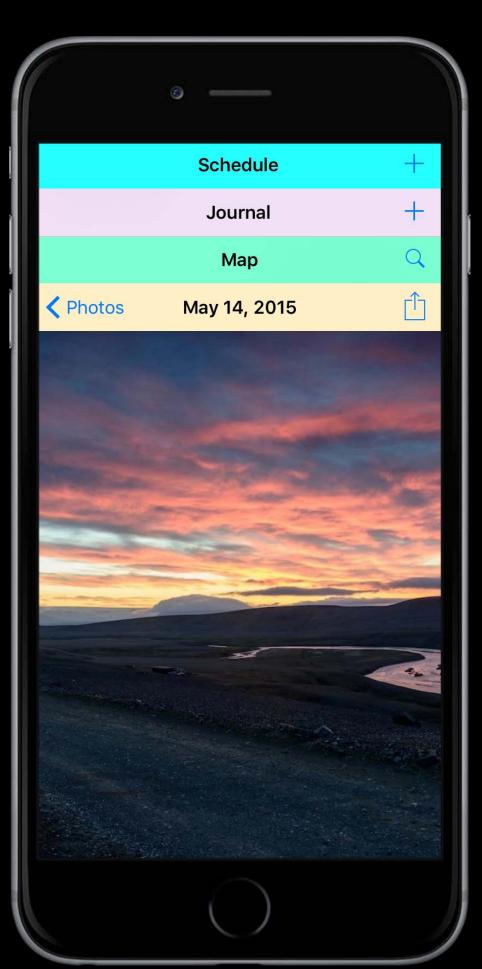


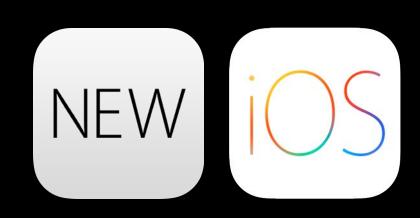




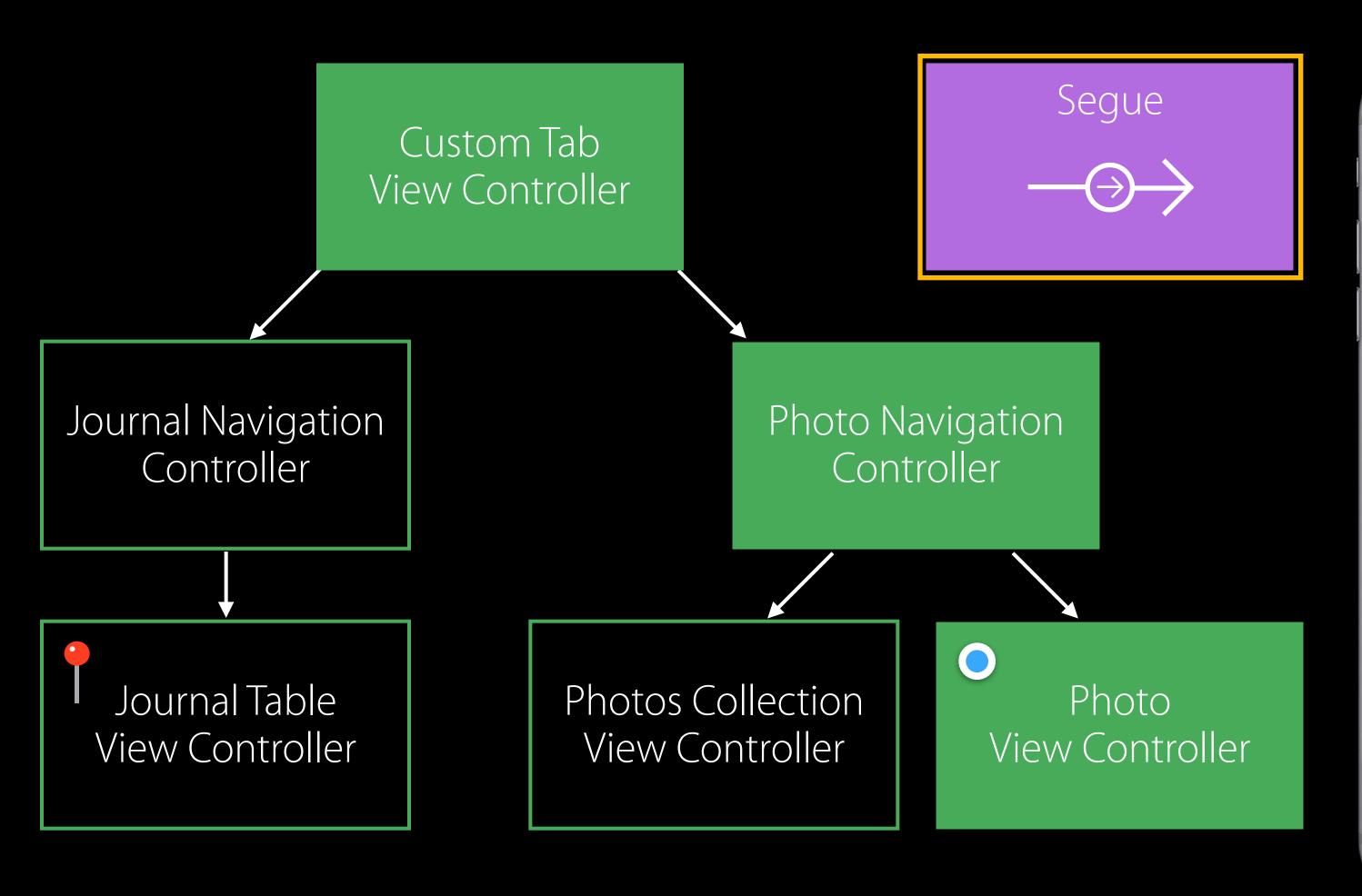


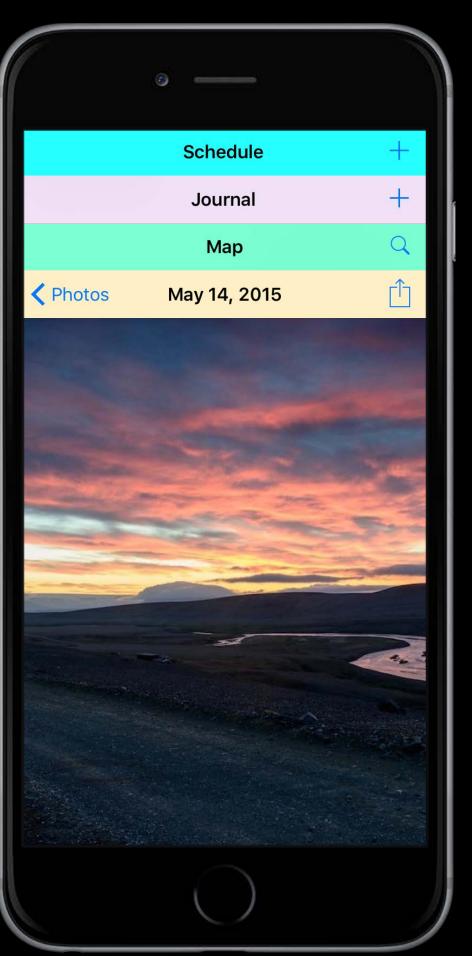


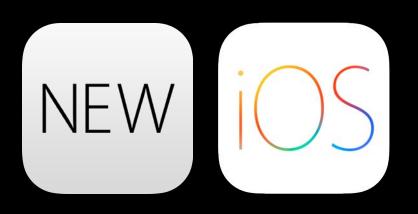


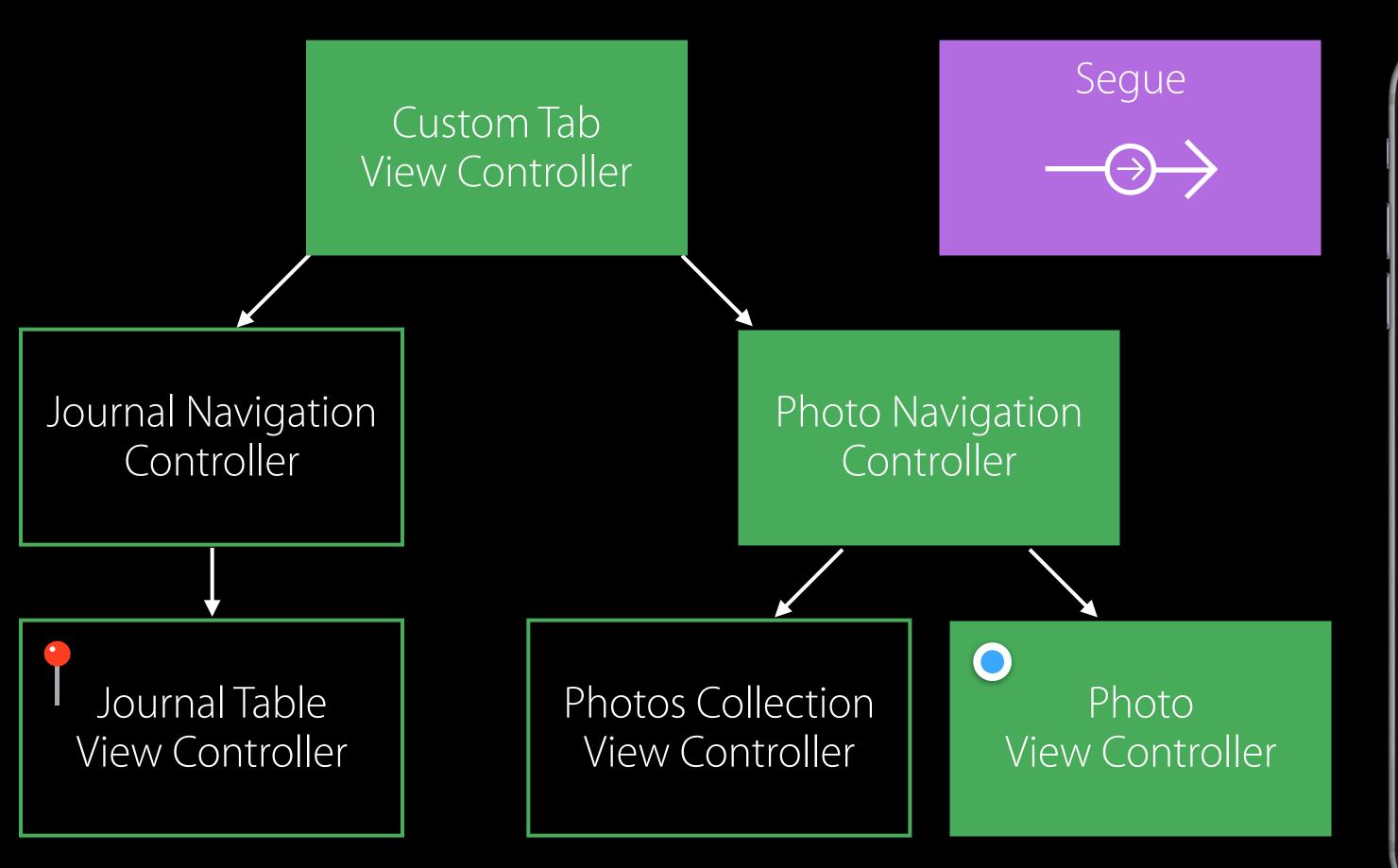


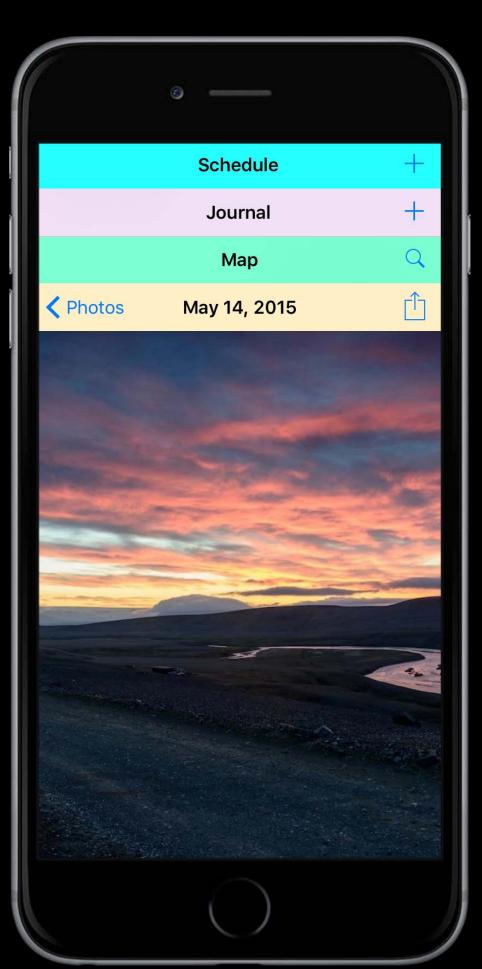




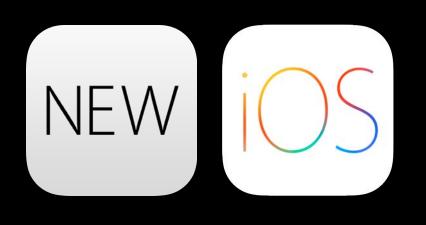


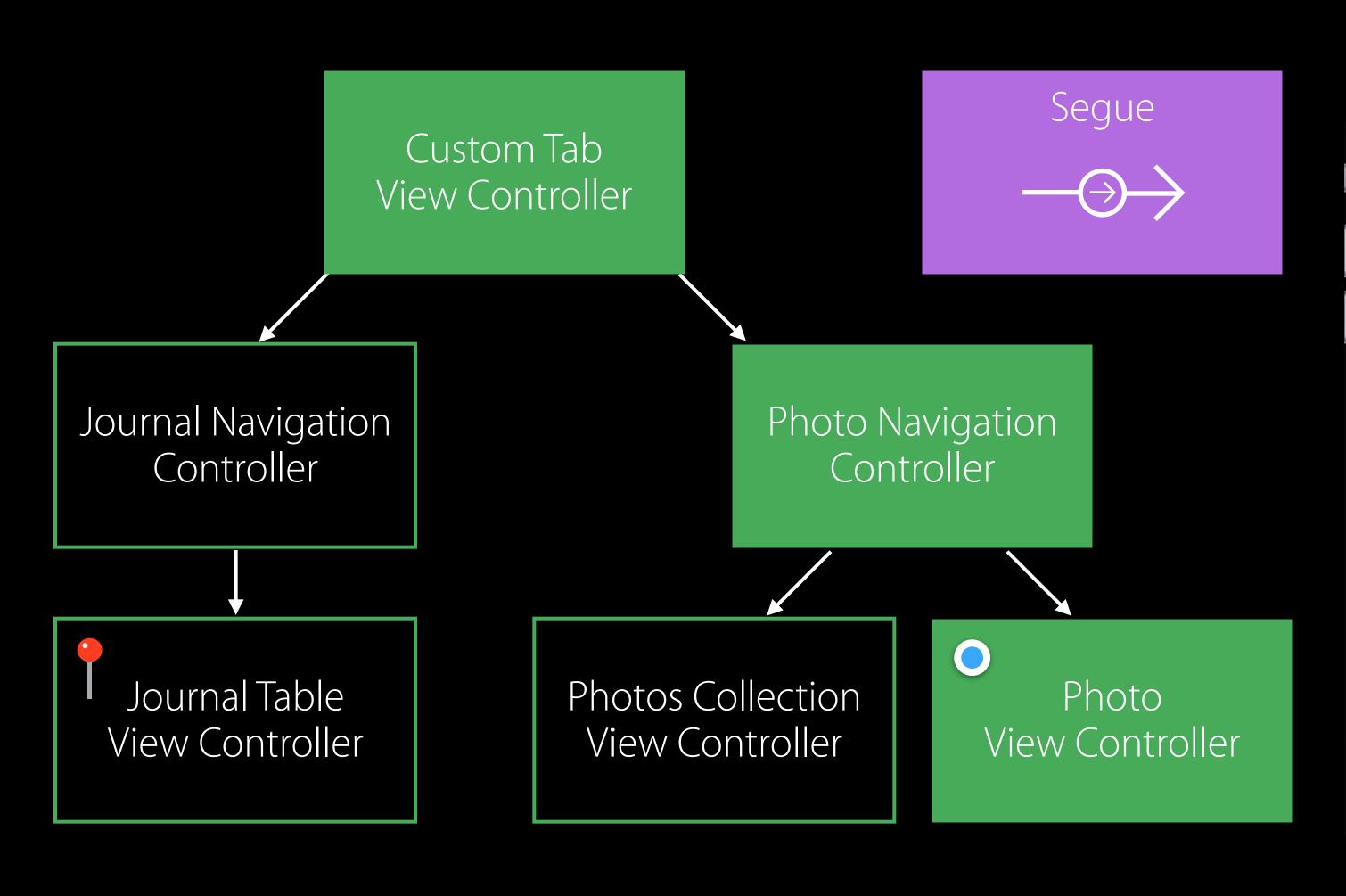


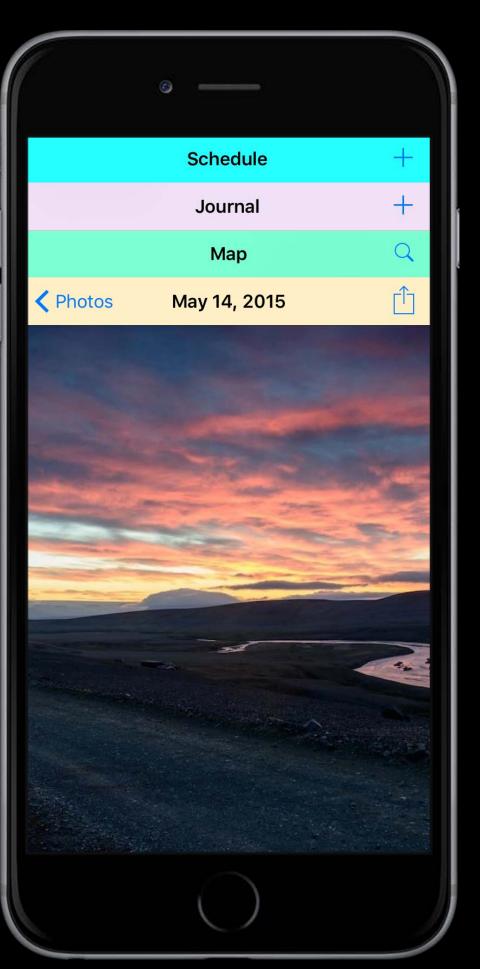




Follow the route

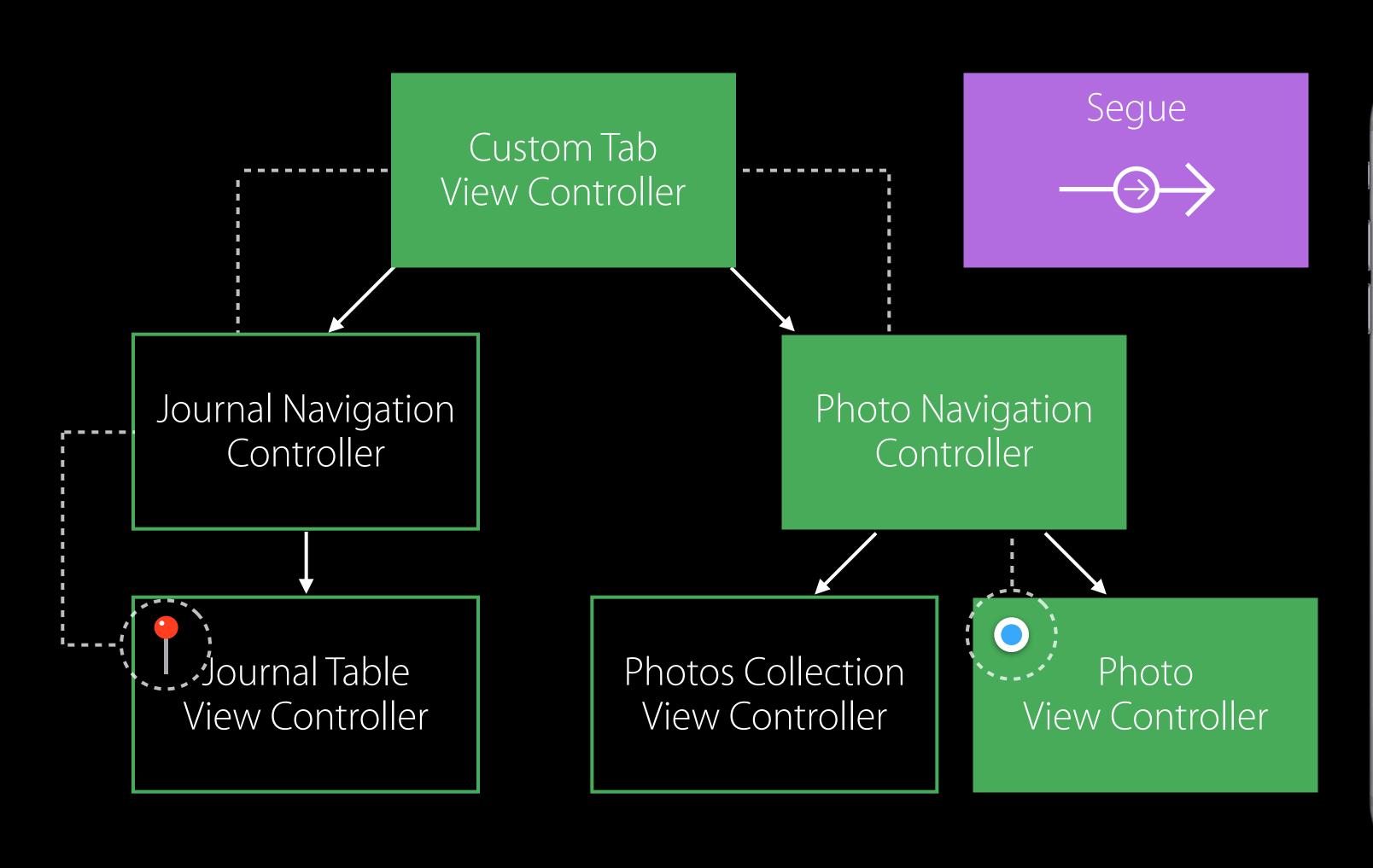


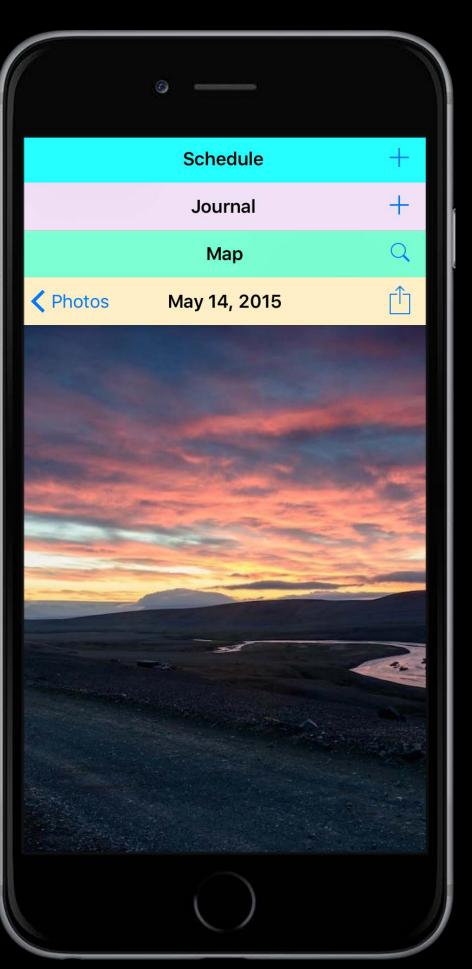


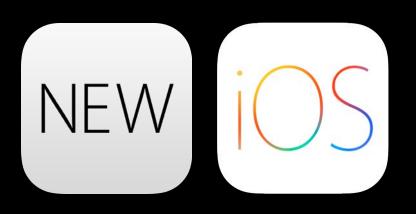


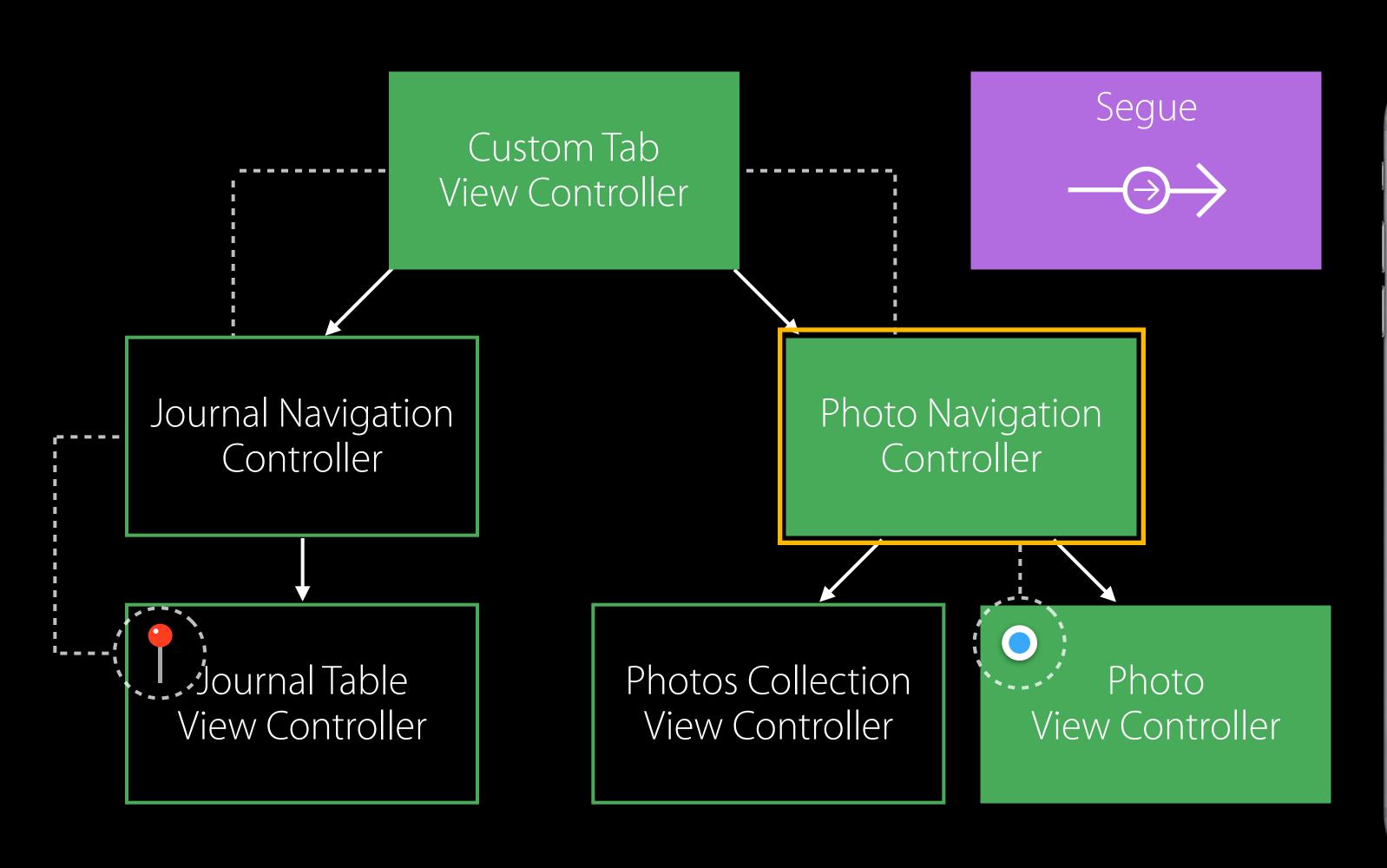
Follow the route

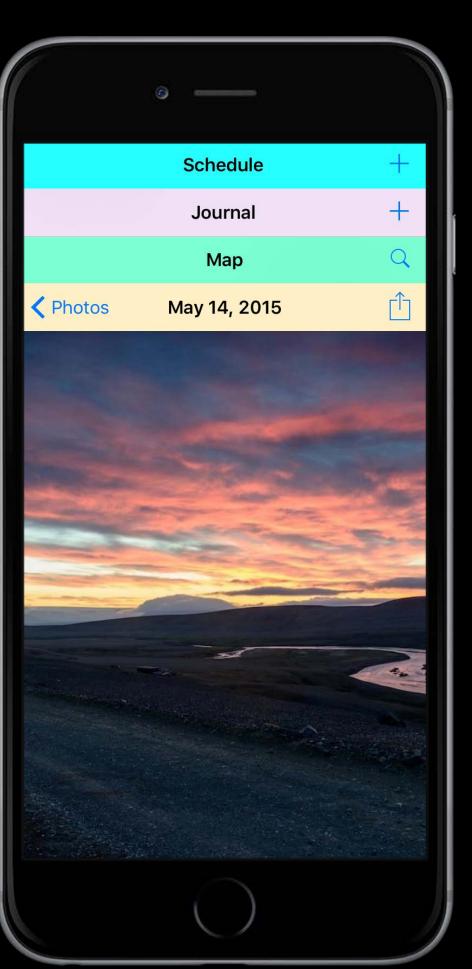


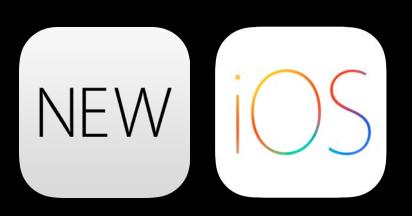




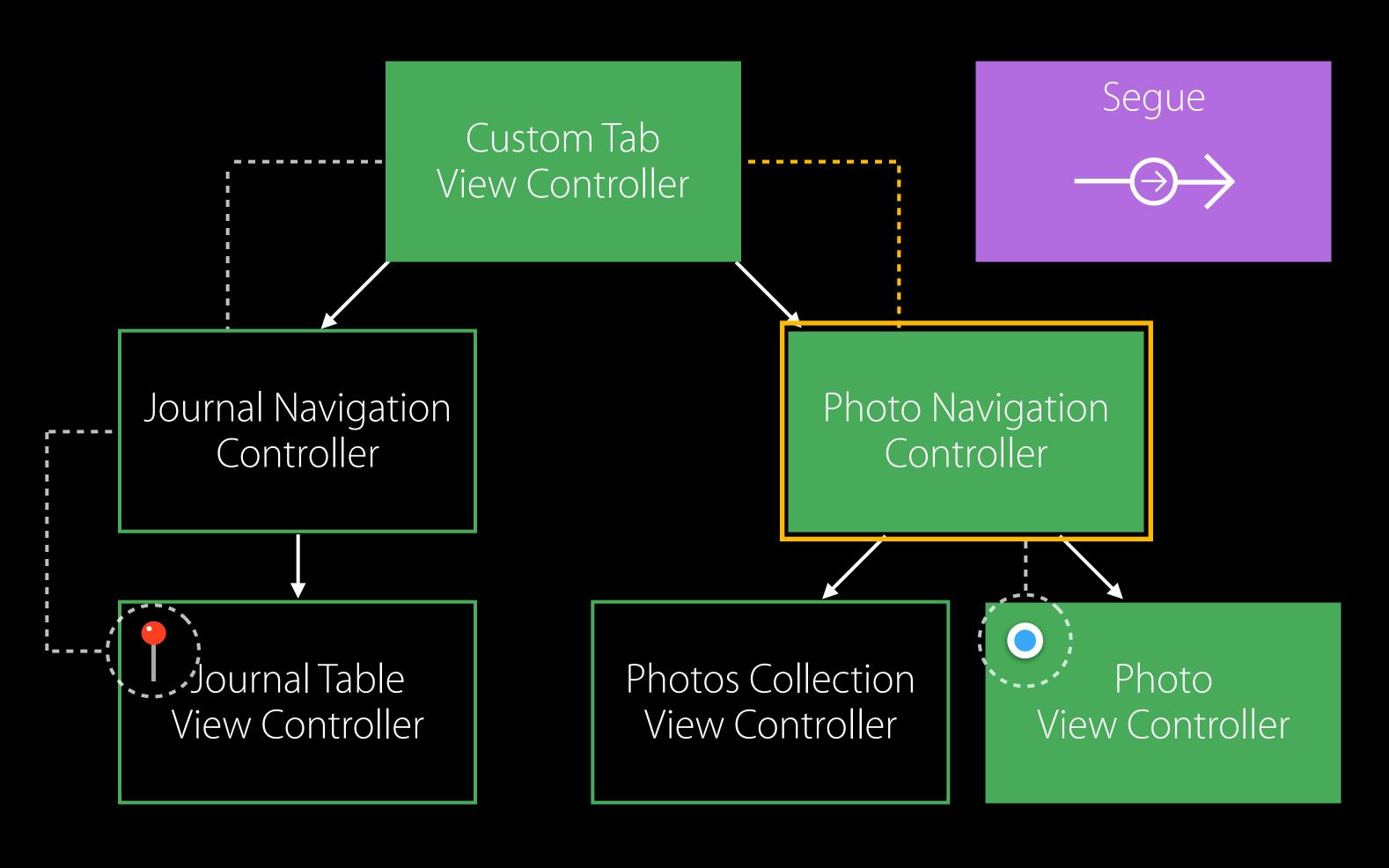


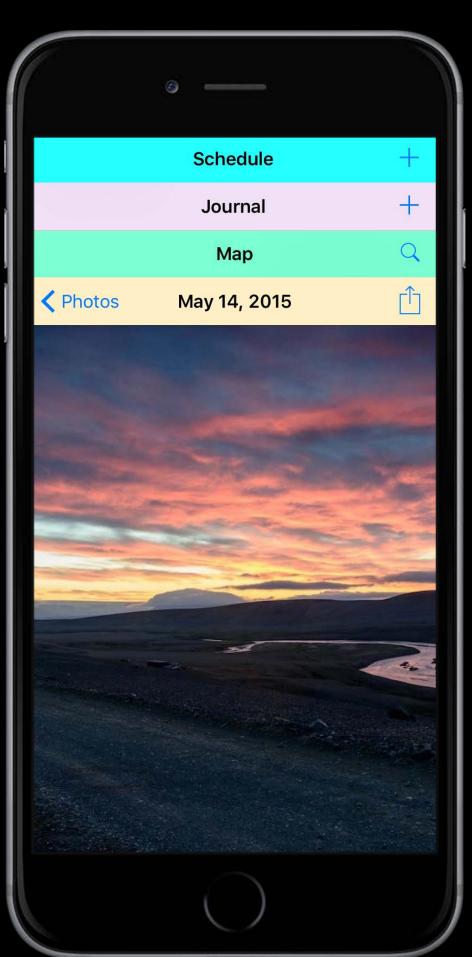


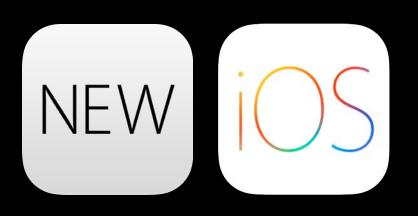


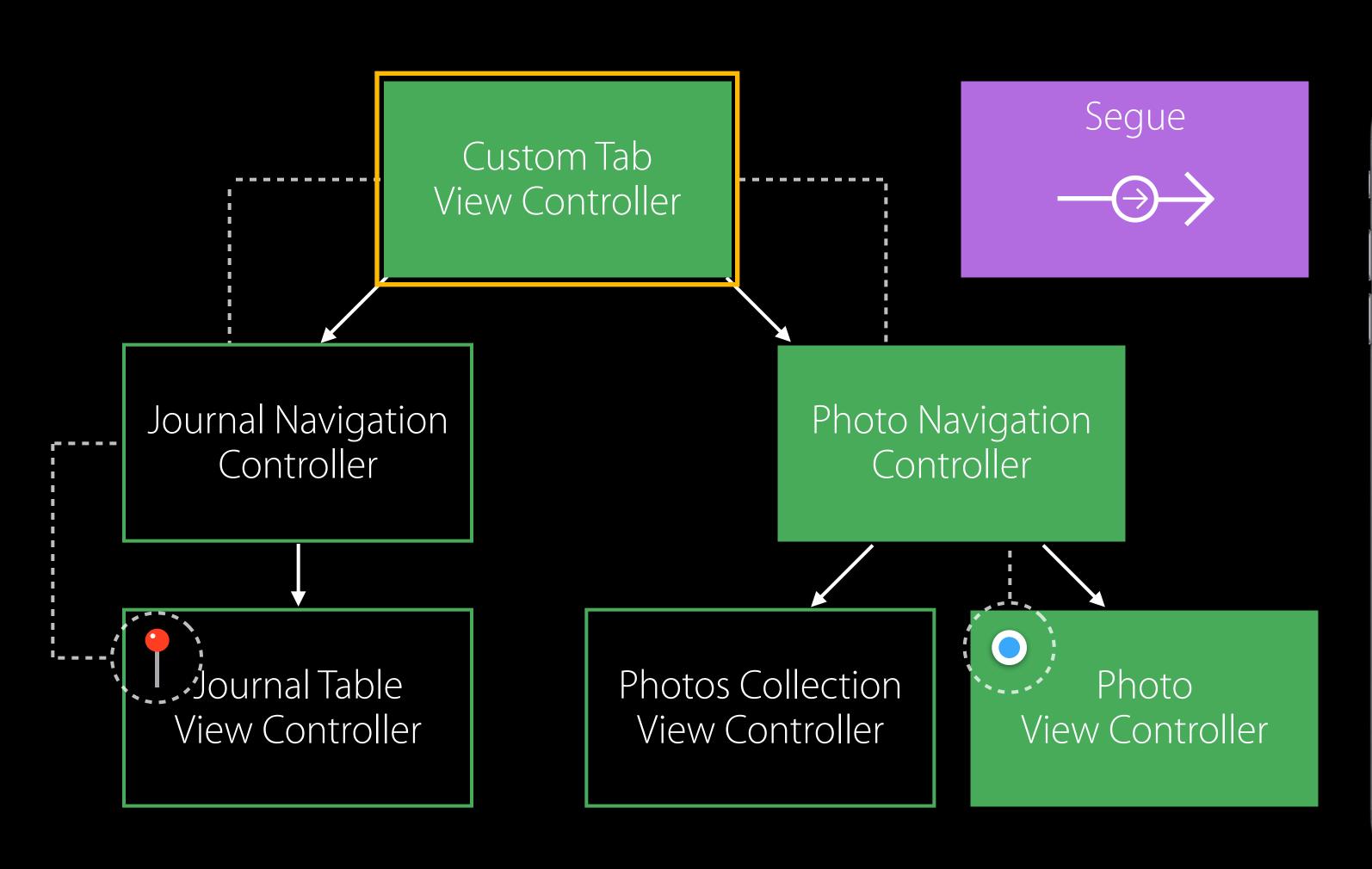


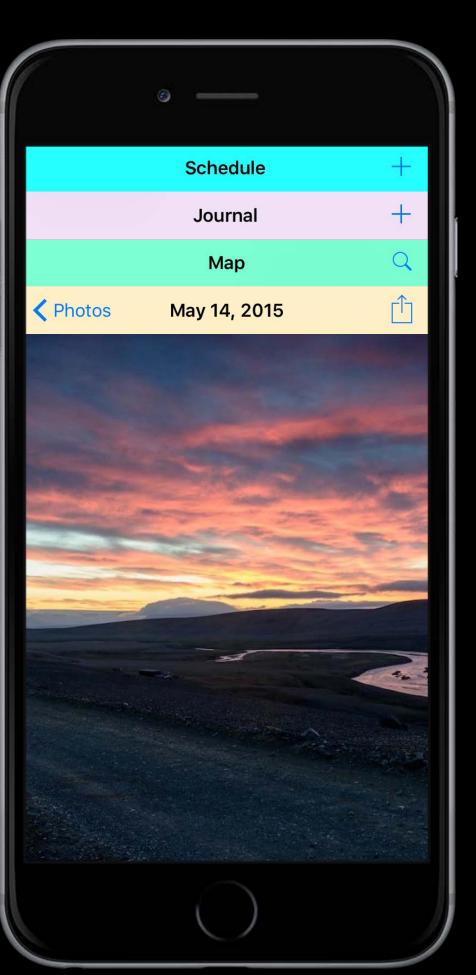
override unwindForSegue(segue, towardsViewController:custom tab)





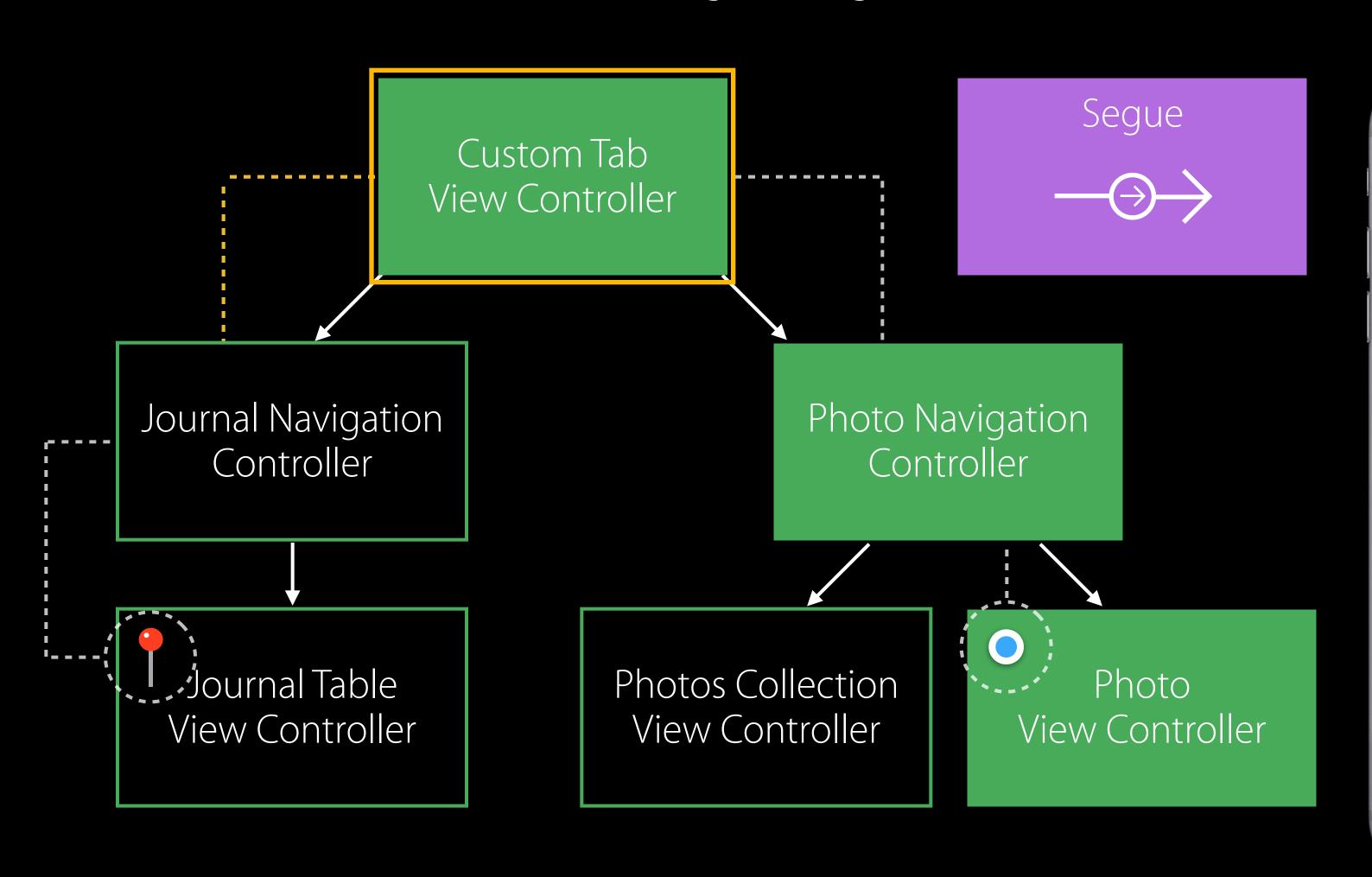


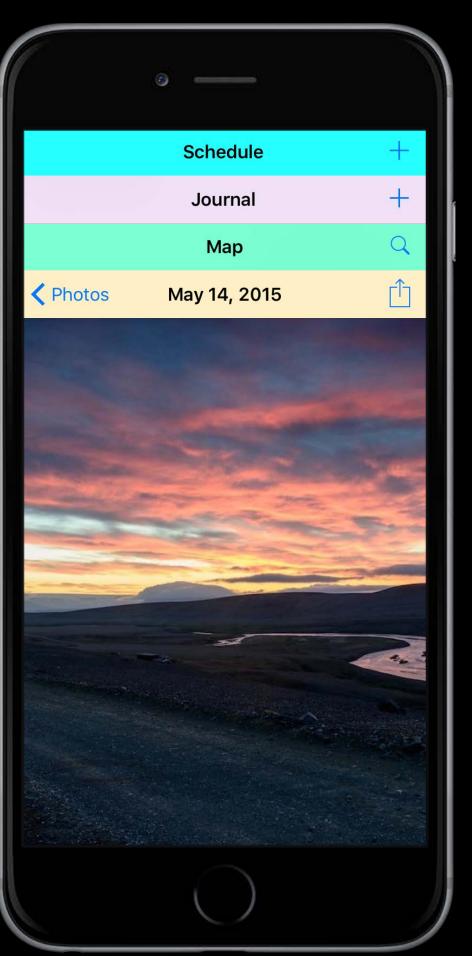


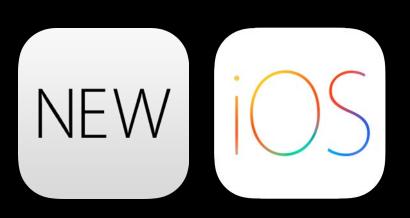




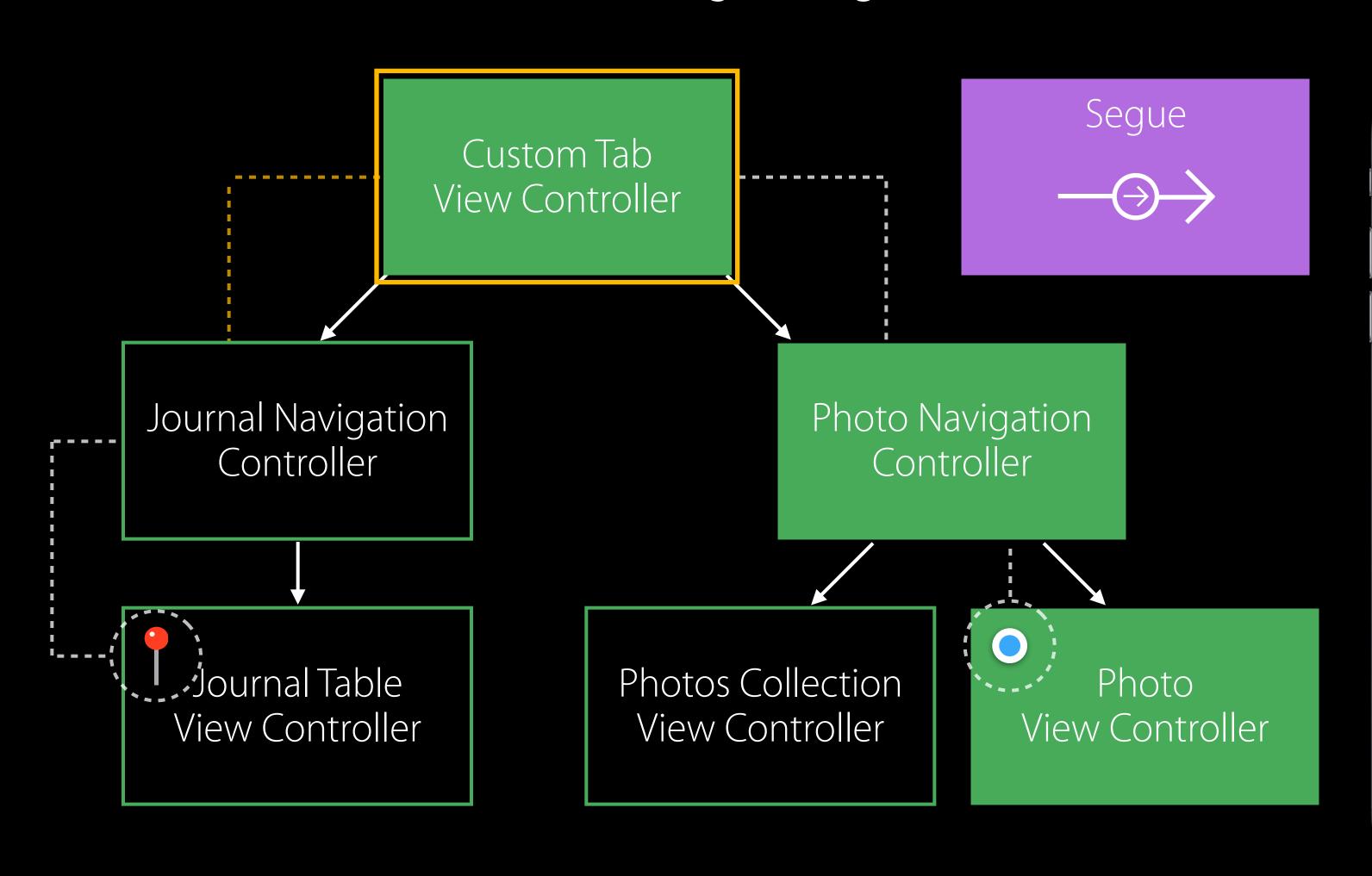
override unwindForSegue(segue, towardsViewController:journal nav)

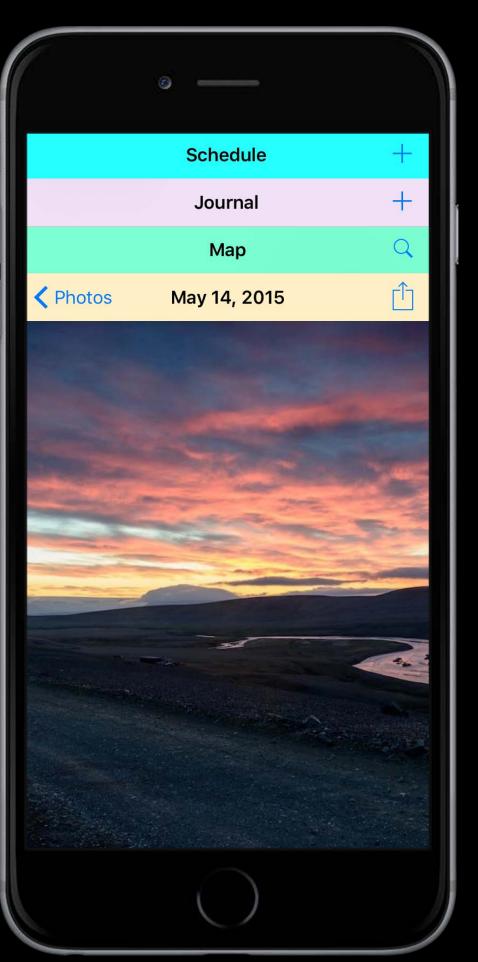


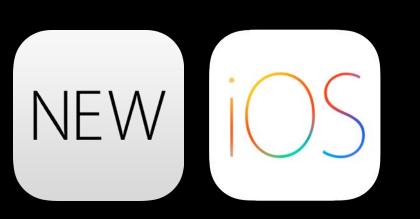




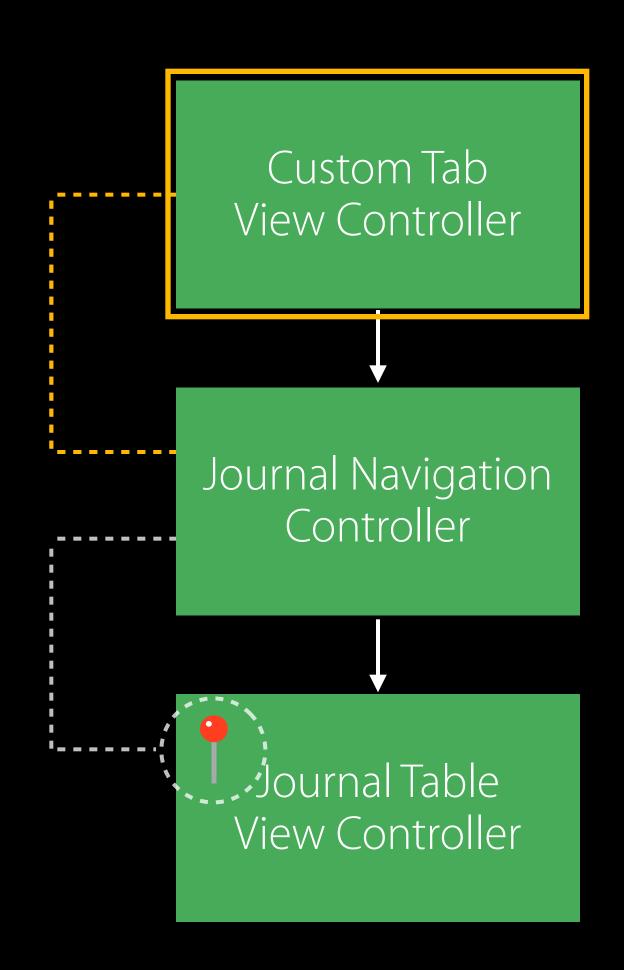
override unwindForSegue(segue, towardsViewController:journal nav)



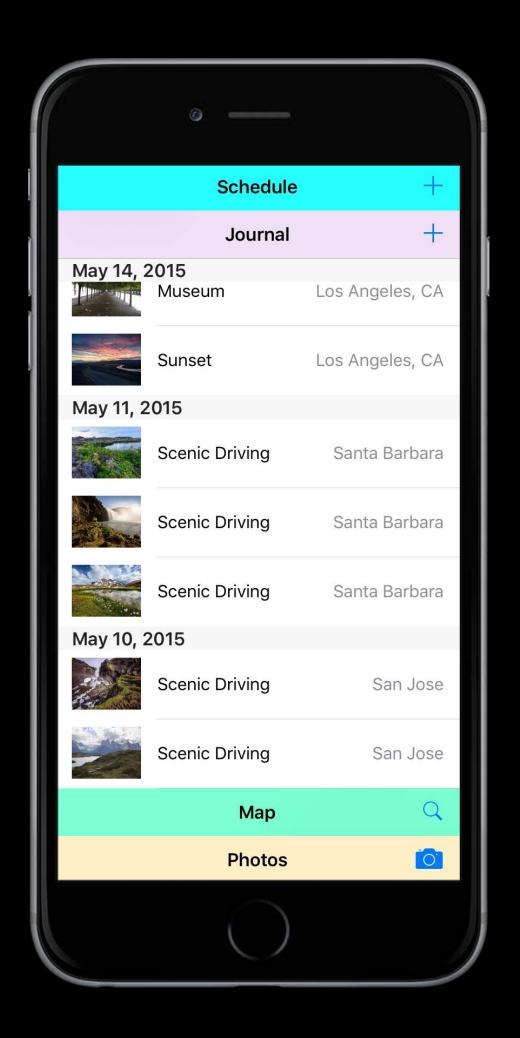


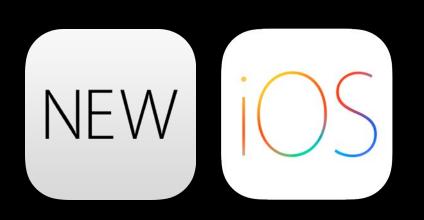


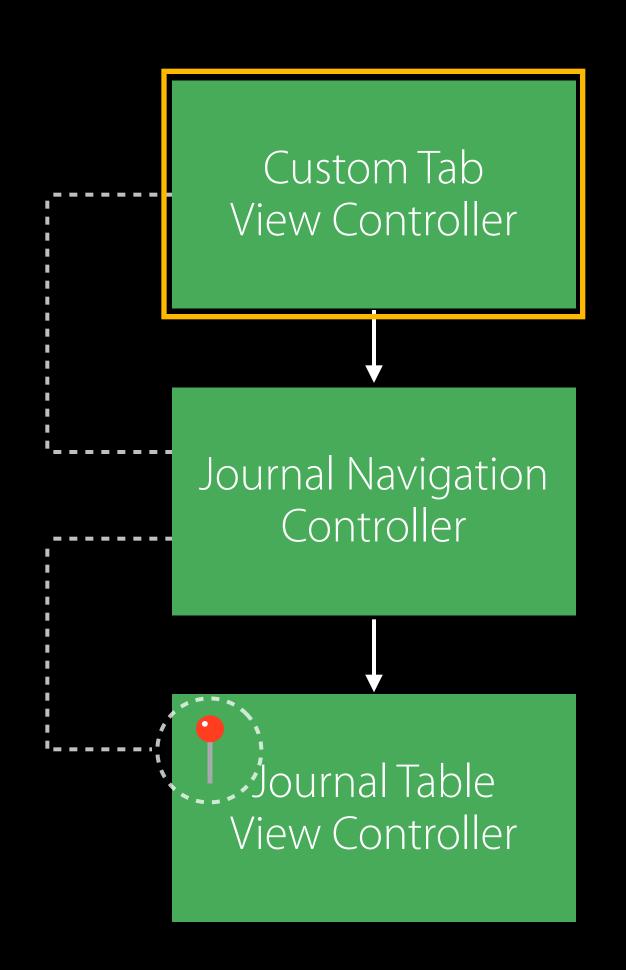
override unwindForSegue(segue, towardsViewController:journal nav)



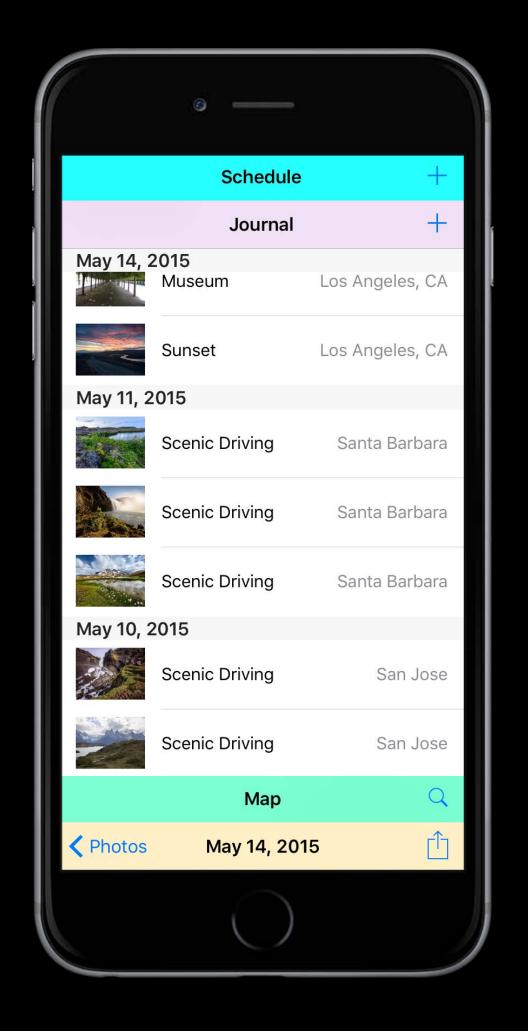


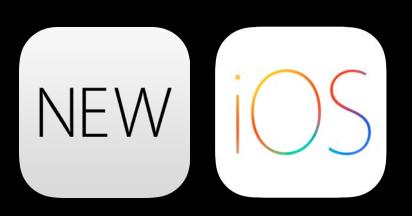




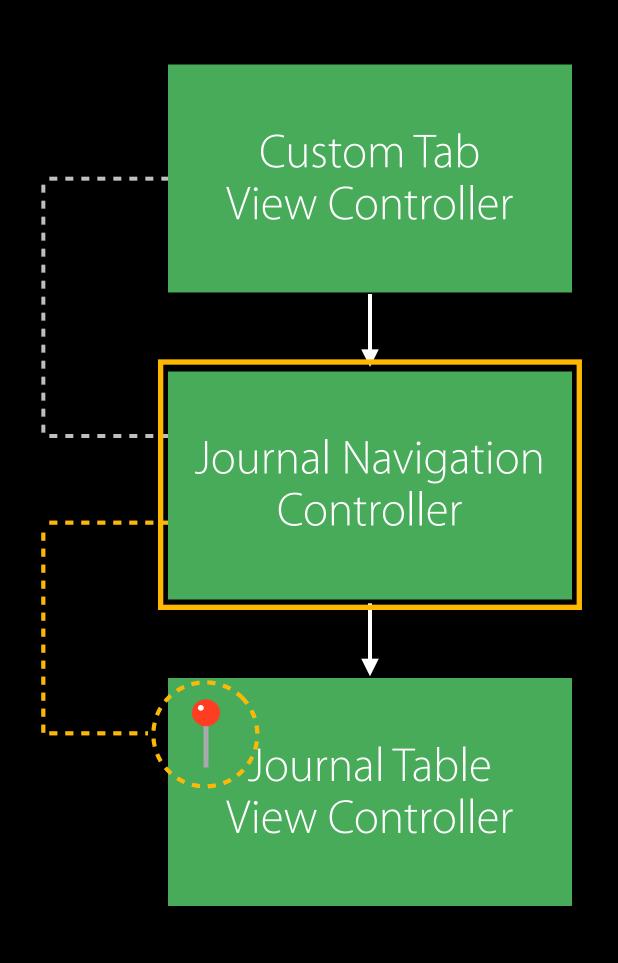




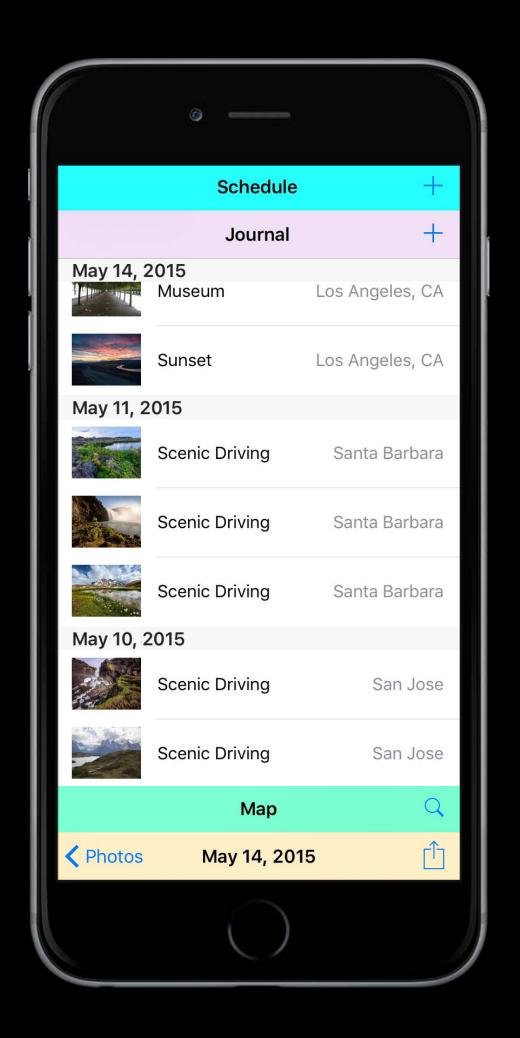


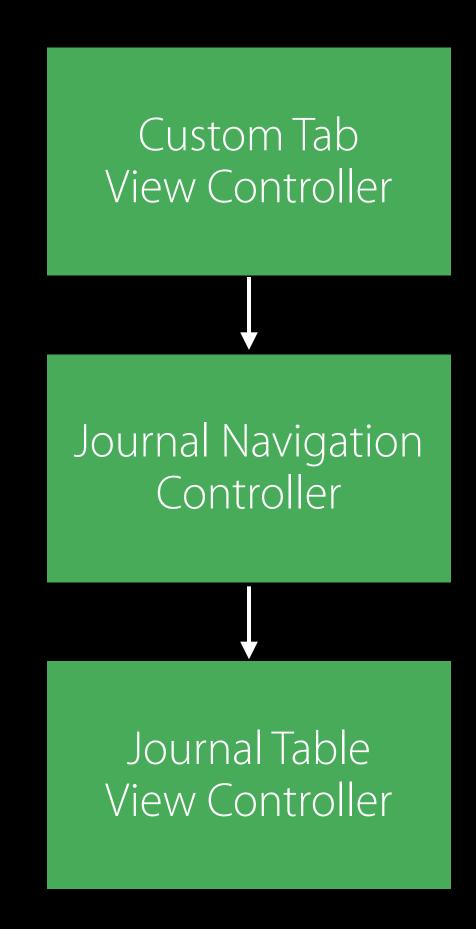


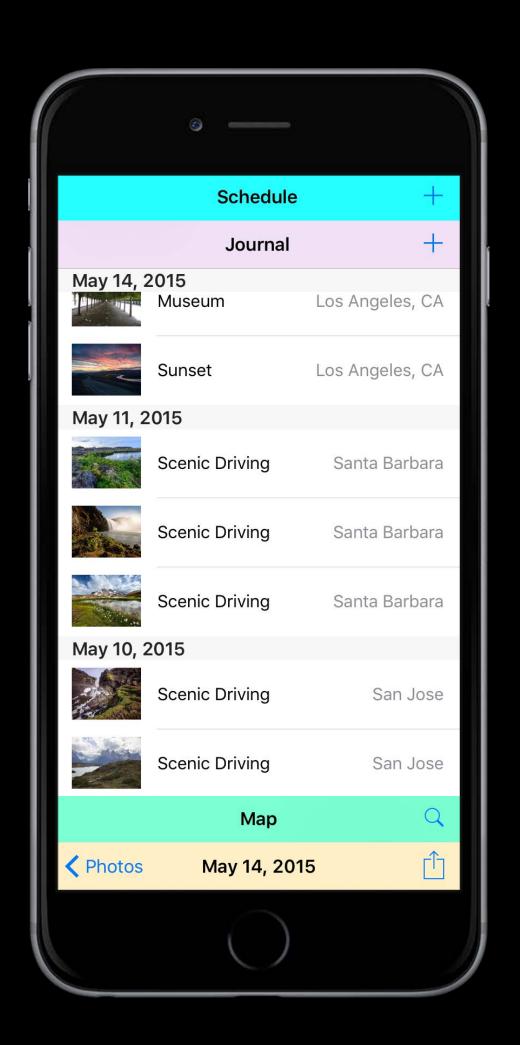
override unwindTowardsViewController(CustomTab, fromViewController:Photo)











Demo

Unwind segues and custom containers

Unwinding APIs

Finding the destination

```
viewControllerForUnwindSegueAction(_:fromViewController:sender:)

override allowedChildViewControllersForUnwindingFromSource(_:)

childViewControllerContainingSegueSource(_:)

override canPerformUnwindSegueAction(_:fromViewController:sender:)
```

Unwinding APIs

Following the route

- segueForUnwindingToViewController(_:fromViewController:identifier:)
- override unwindForSegue(_:towardsViewController:)

Organize your storyboards using Storyboard References

Organize your storyboards using Storyboard References Customize triggered and unwind segues by subclassing

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Present Modally and Popover Presentation segues have extended lifetimes

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 Unwind segues move backward through application flow

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- Support unwind segues in custom containers

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- Present Modally and Popover Presentation segues have extended lifetimes
 Unwind segues move backward through application flow
- Support unwind segues in custom containers
- Remove implementations of deprecated API to get new behavior

More Information

Documentation

Storyboard Help

Sample Code

SegueCatalog

http://developer.apple.com/library

Technical Support

Apple Developer Forums

Developer Technical Support

General Inquiries

Curt Rothert, App Frameworks Evangelist rothert@apple.com

Related Session and Lab

Implementing UI Designs in Interface Builder	Pacific Heights	Wednesday 1:30PM
Interface Builder and Auto Layout Lab	Developer Tools Lab B	Thursday 1:30PM

ÓWWDC15