iPhone App Development

CM420-09-2016-C
Lesson 6

Lecturer

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Git

https://github.com/bryanttang/iOS-Class-2016-9

Test

- Scope: All in handout!
- Date: 10/27 (45 minites)

Project

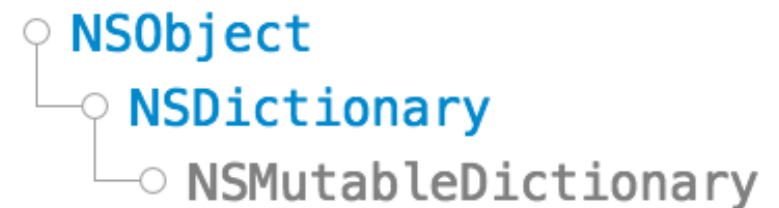- Type: Game, Utility
- Demo date: 10/27 (1 hour)

Summary

- Custom Table View Cell, NSDictionary

- Navigation Controller

- View cycle

- Debug mode

Dictionary (advance)

- NSMutableDictionary
  - Add KeyPair
    - - setObject:forKey:
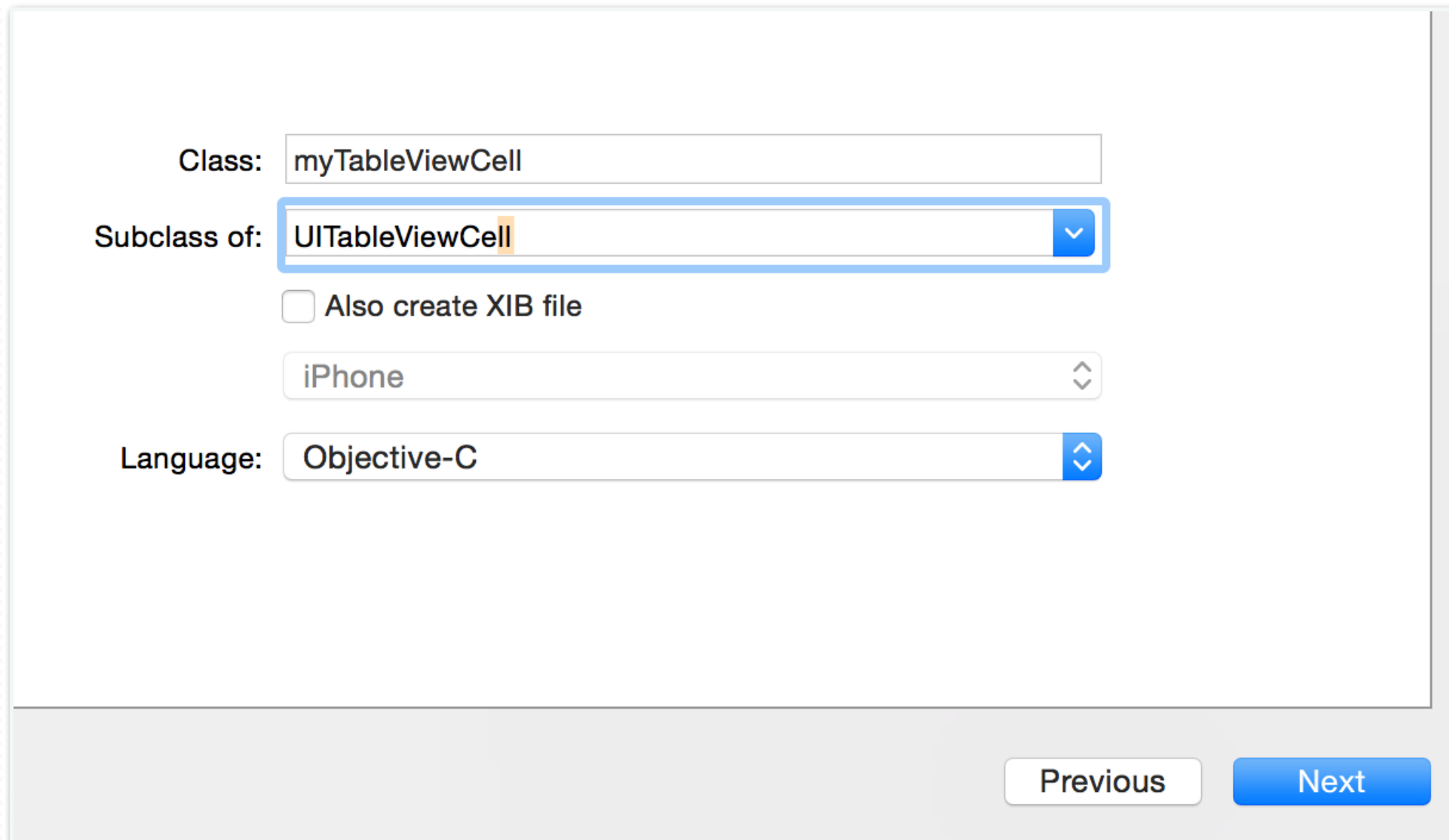 - Remove KeyPair
    - - removeObjectForKey:

Inheritance

NSObject
  NSDictionary
    NSMutableDictionary

Custom Table View Cell

How to make a custom Cell?

-New a Class inheritance TableViewCell

-Define what information would show on cell
(e.g. name, user image, description)

-Design custom cell UI in storyboard

-Implement cell in DataSource function in TableViewController

Custom Table View Cell

New a Class inheritance TableViewCell

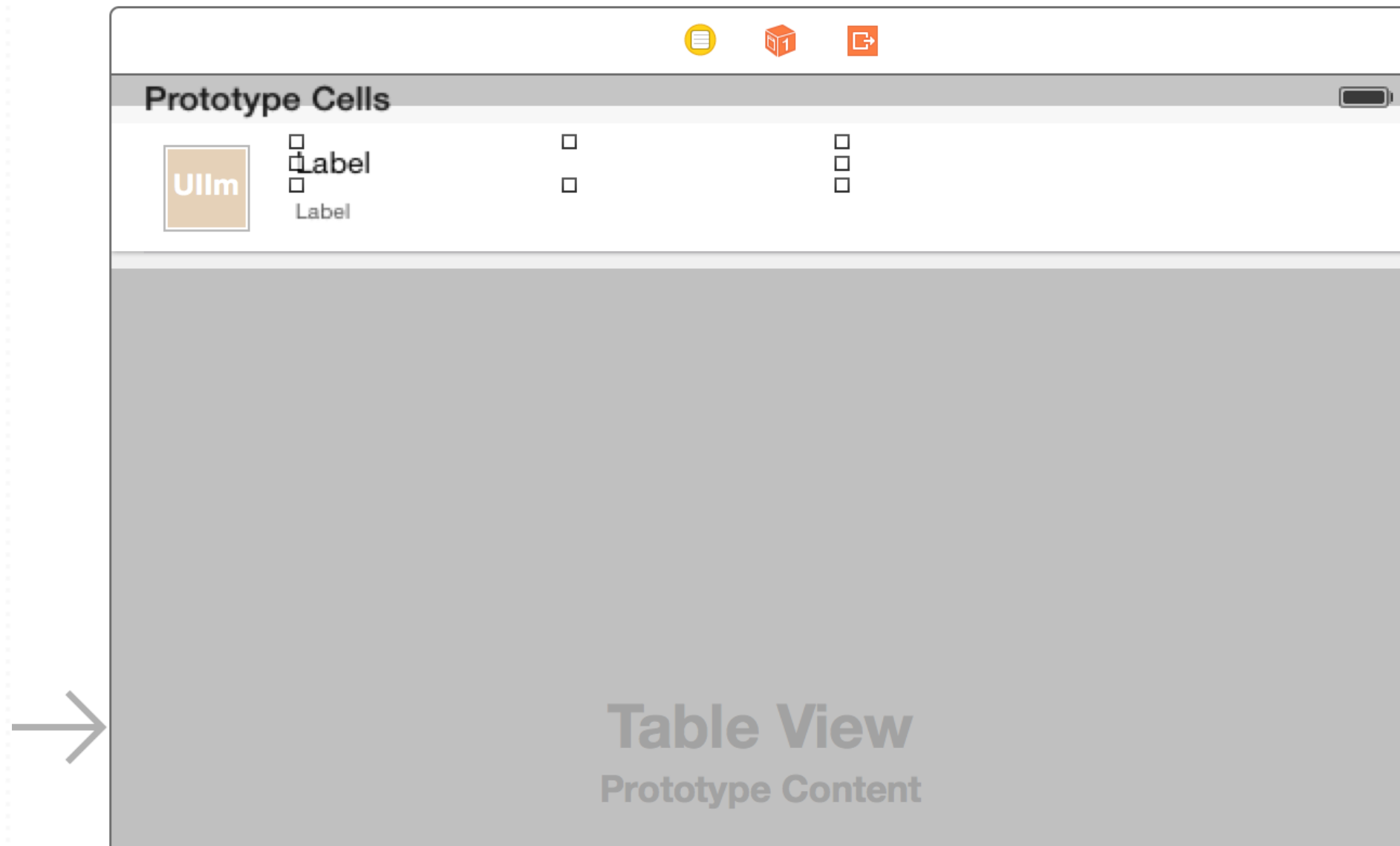|	
Class:	myTableViewCell
Subclass of:	UITableViewCell

☐ Also create XIB file

iPhone

Language:	Objective-C

Previous   Next

Custom Table View Cell

 -Define what information would show on cell
(e.g. name, user image, description)
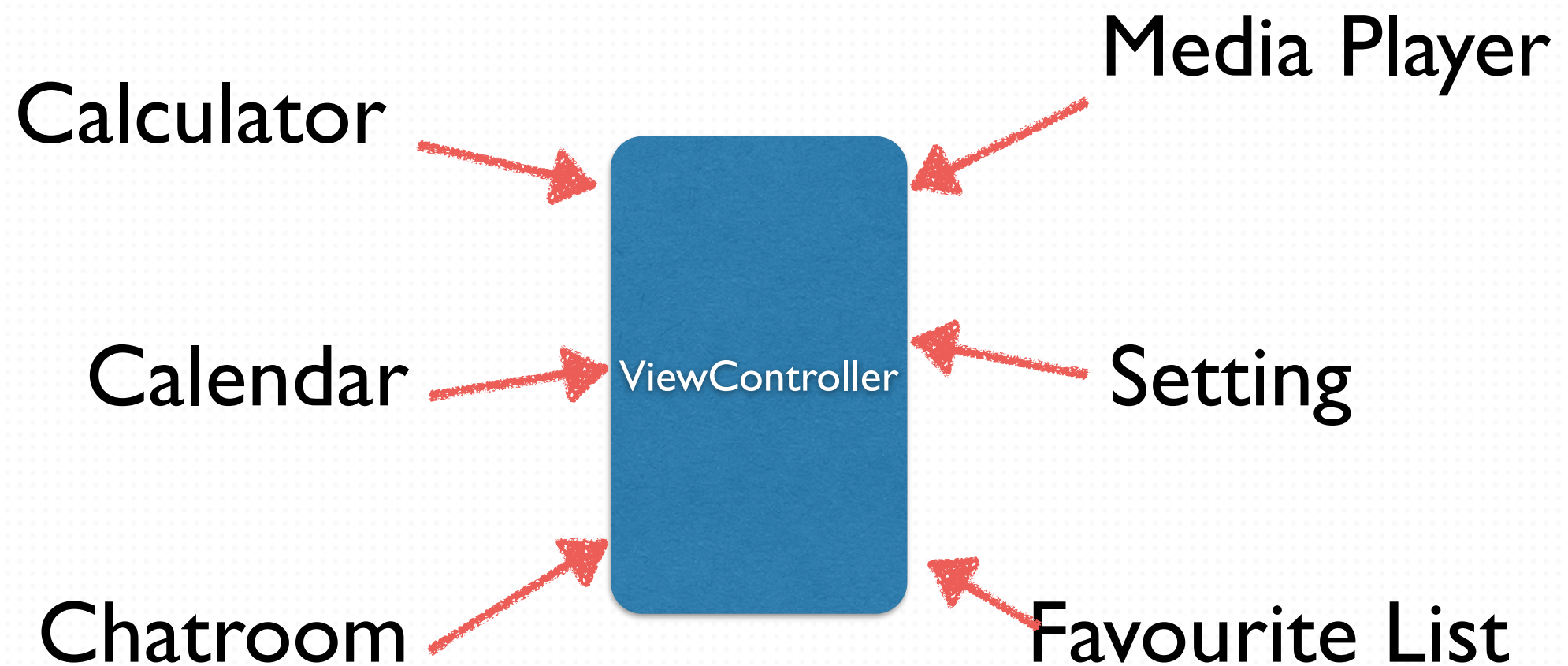
-Design custom cell UI in storyboard

Navigation Controller

Demo

Navigation Controller
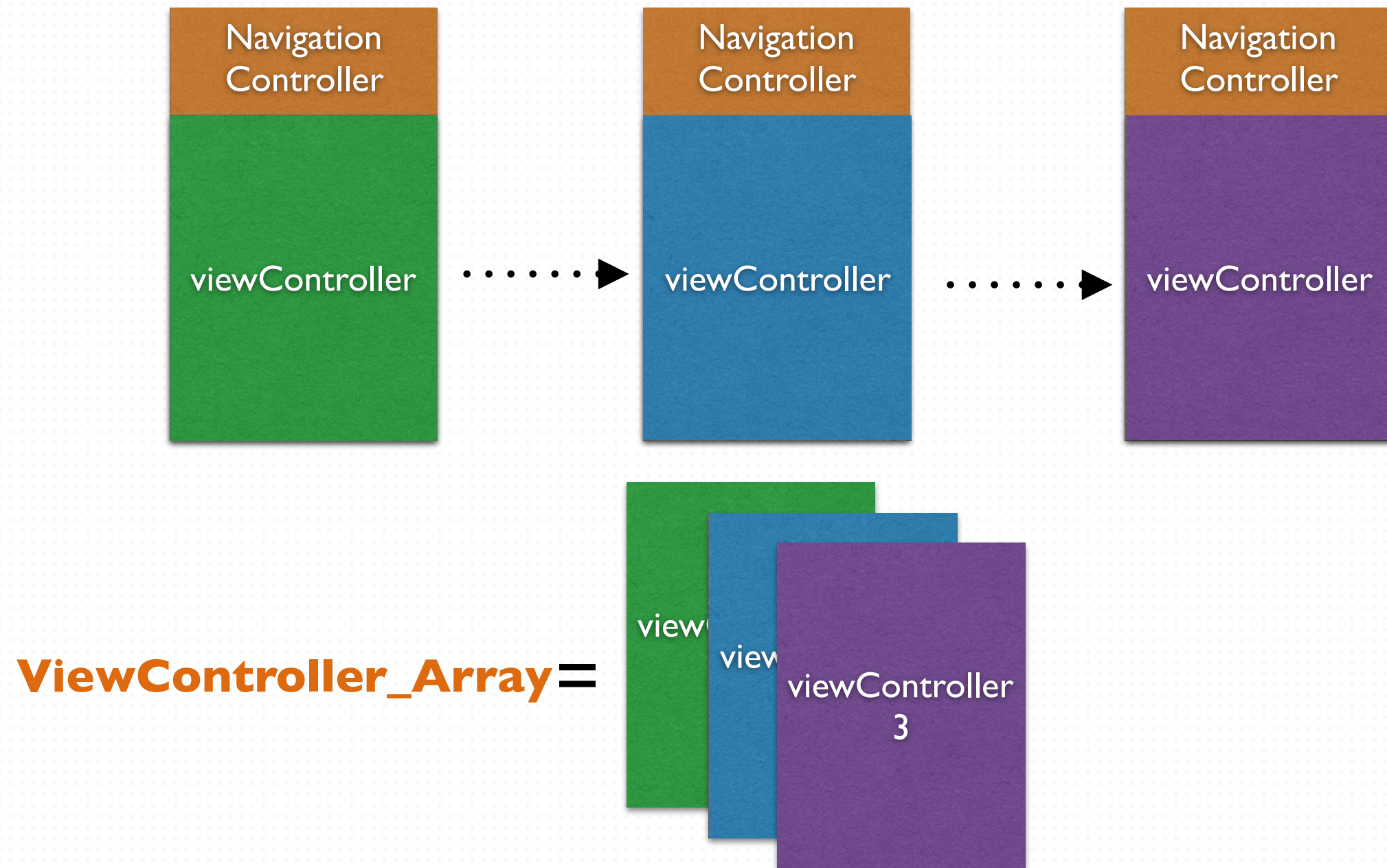
- Don't use only "ONE" Controller in your app

Calculator

Media Player

Calendar

ViewController

Setting

Chatroom

Favourite List

Navigation Controller

Navigation Controller

Navigation Controller

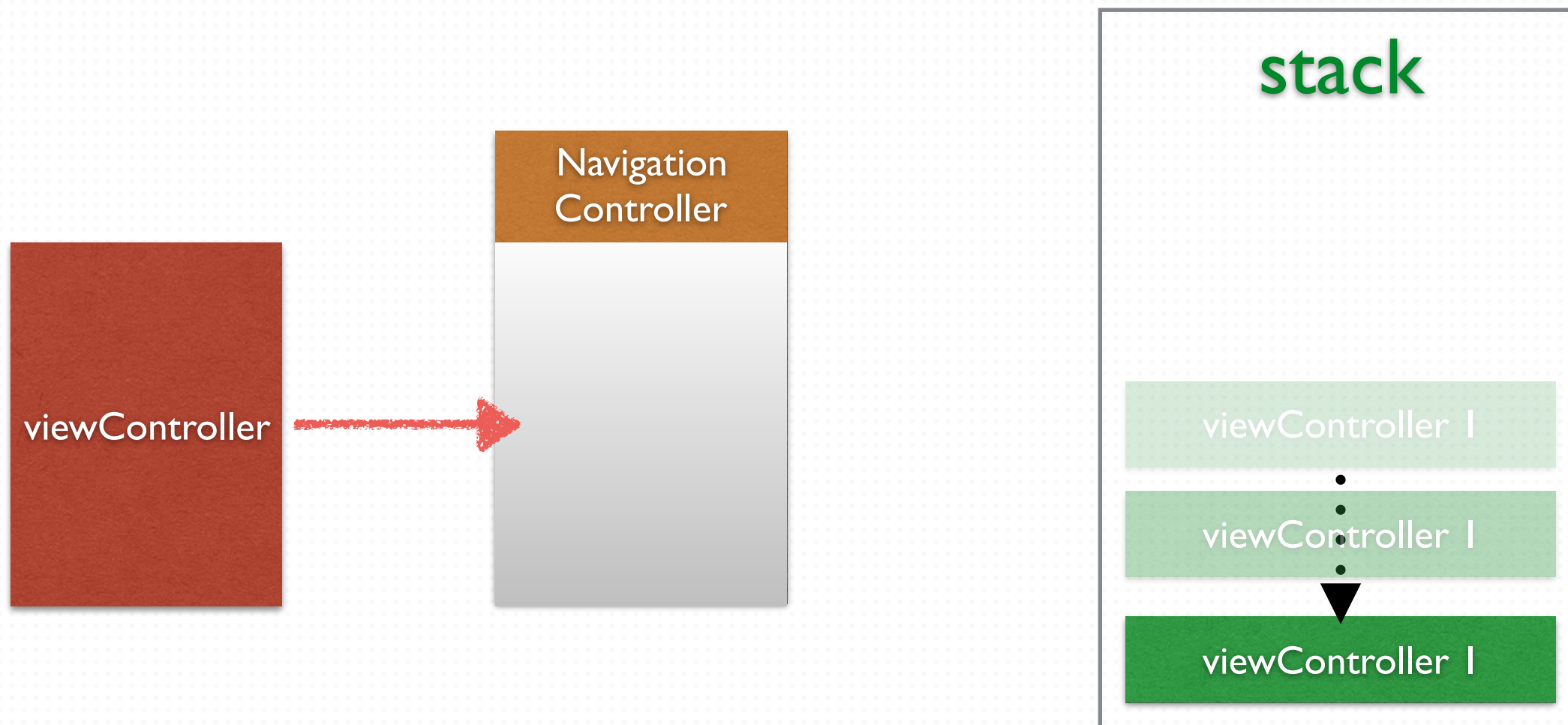| Navigation Controller		Navigation Controller		Navigation Controller
viewController	·······►	viewController	······►	viewController
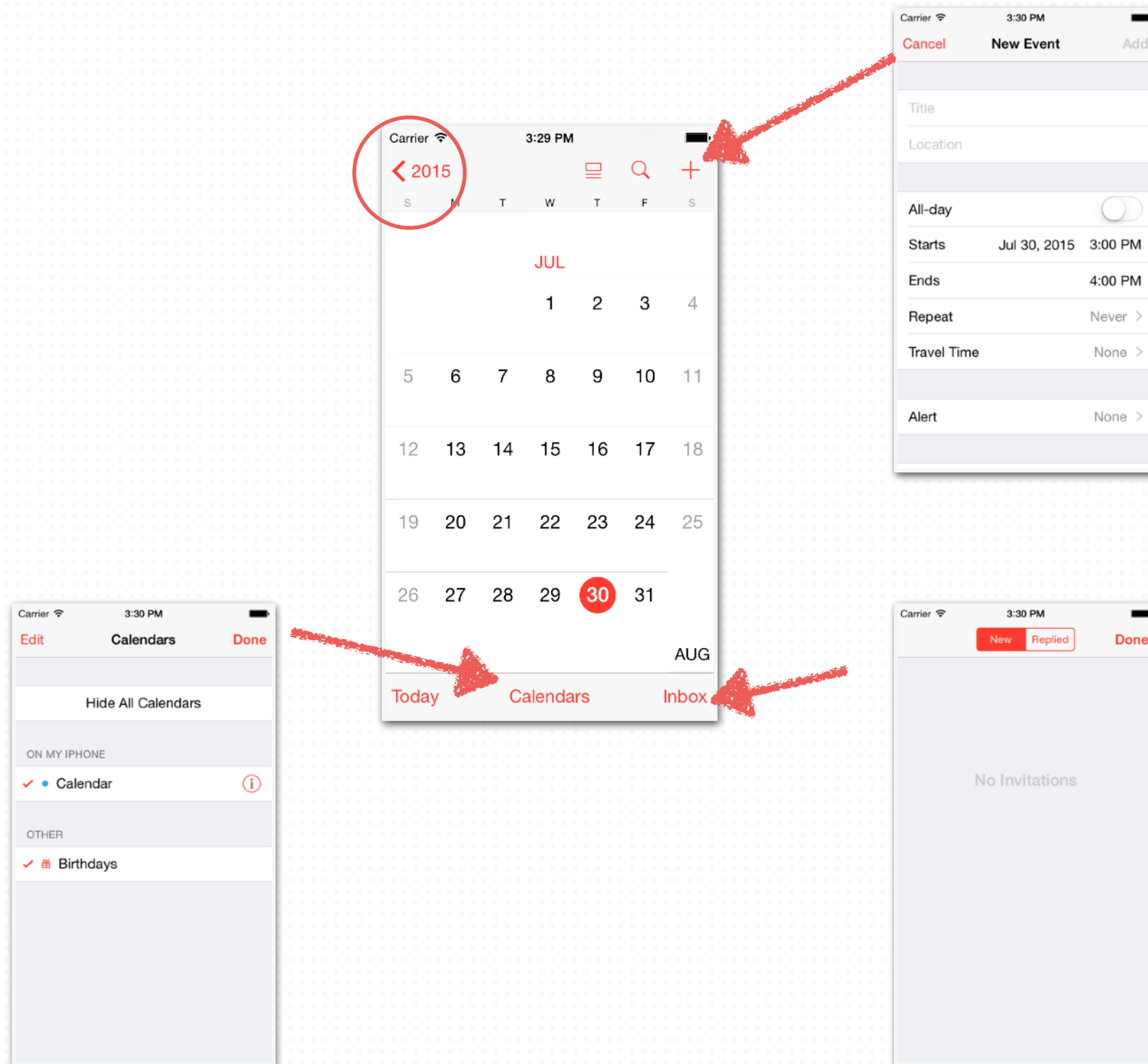
ViewController_Array= viewController 3
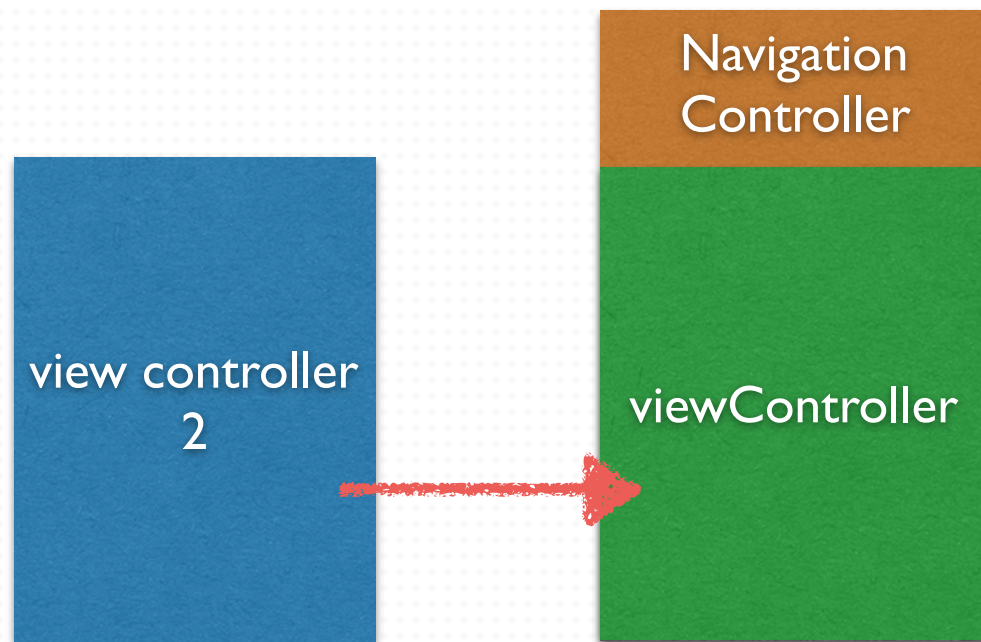
Navigation Controller Manages the navigation of hierarchical content

Navigation Controller

viewController
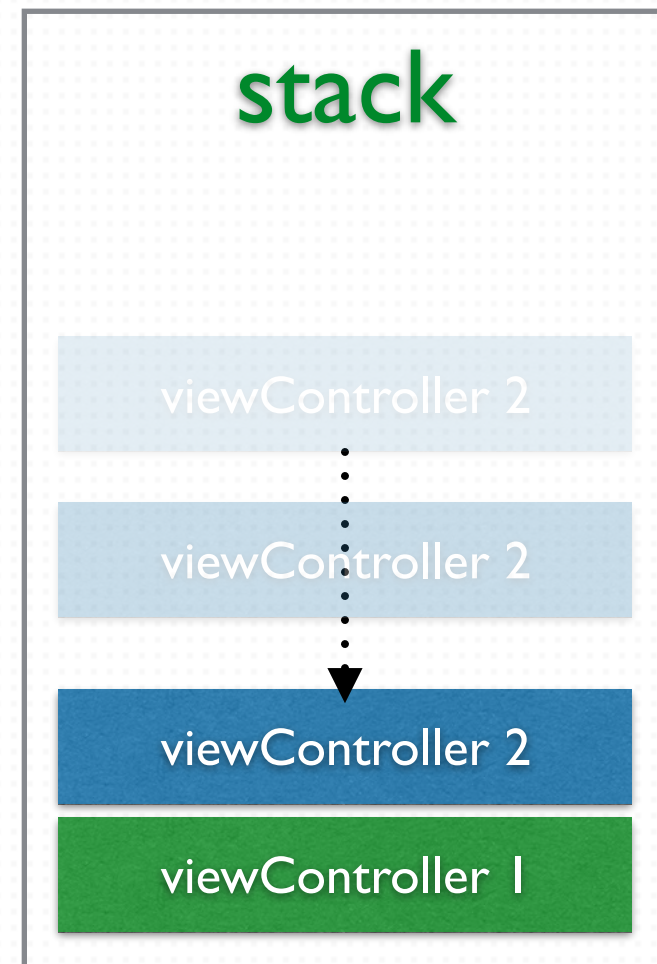
Navigation
Controller

viewController 1

viewController 1

viewController 1

There is at least one ViewController in Navigation Controller -
RootViewController

Navigation Controller

view controller 2
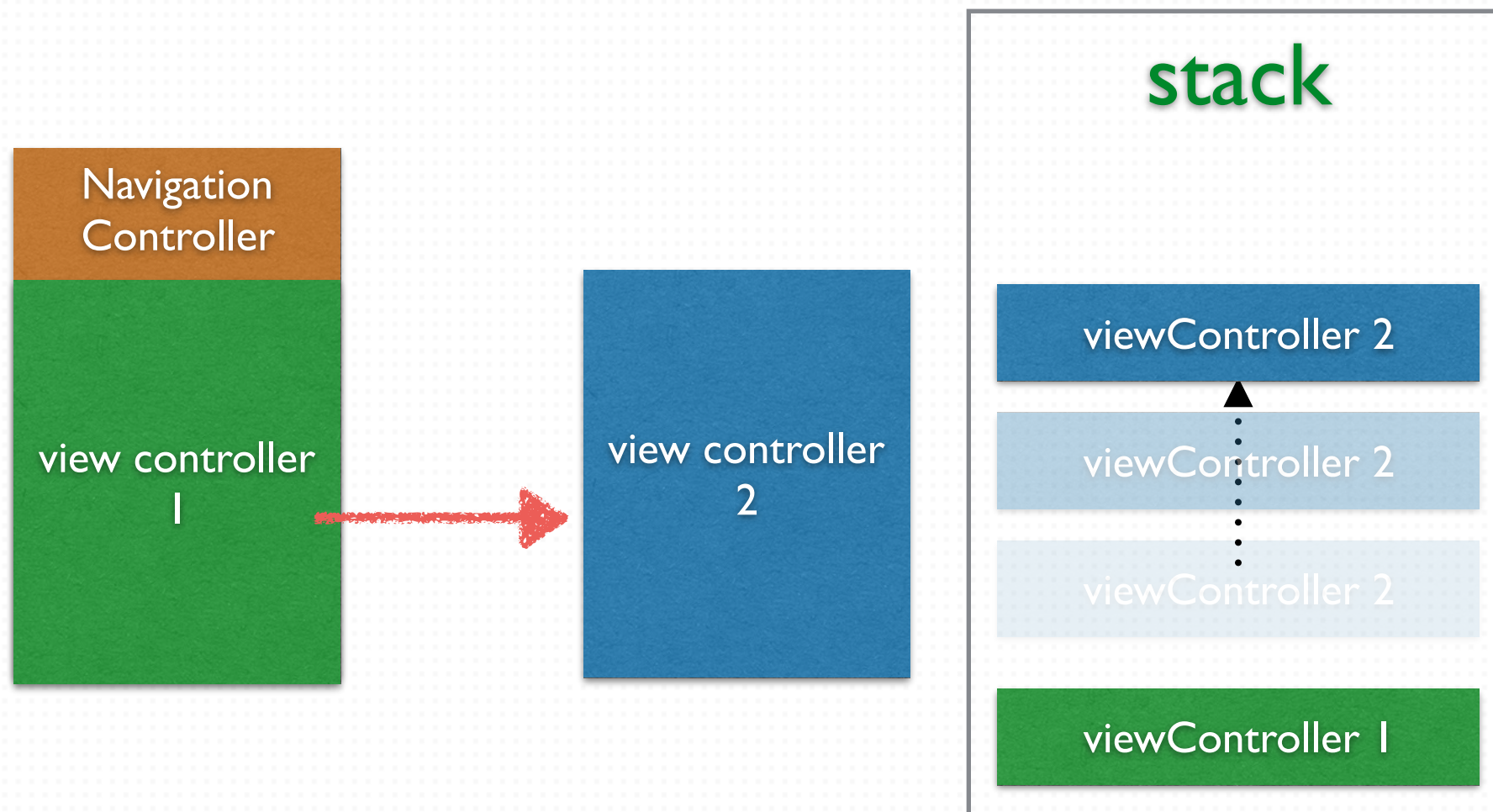
Navigation Controller

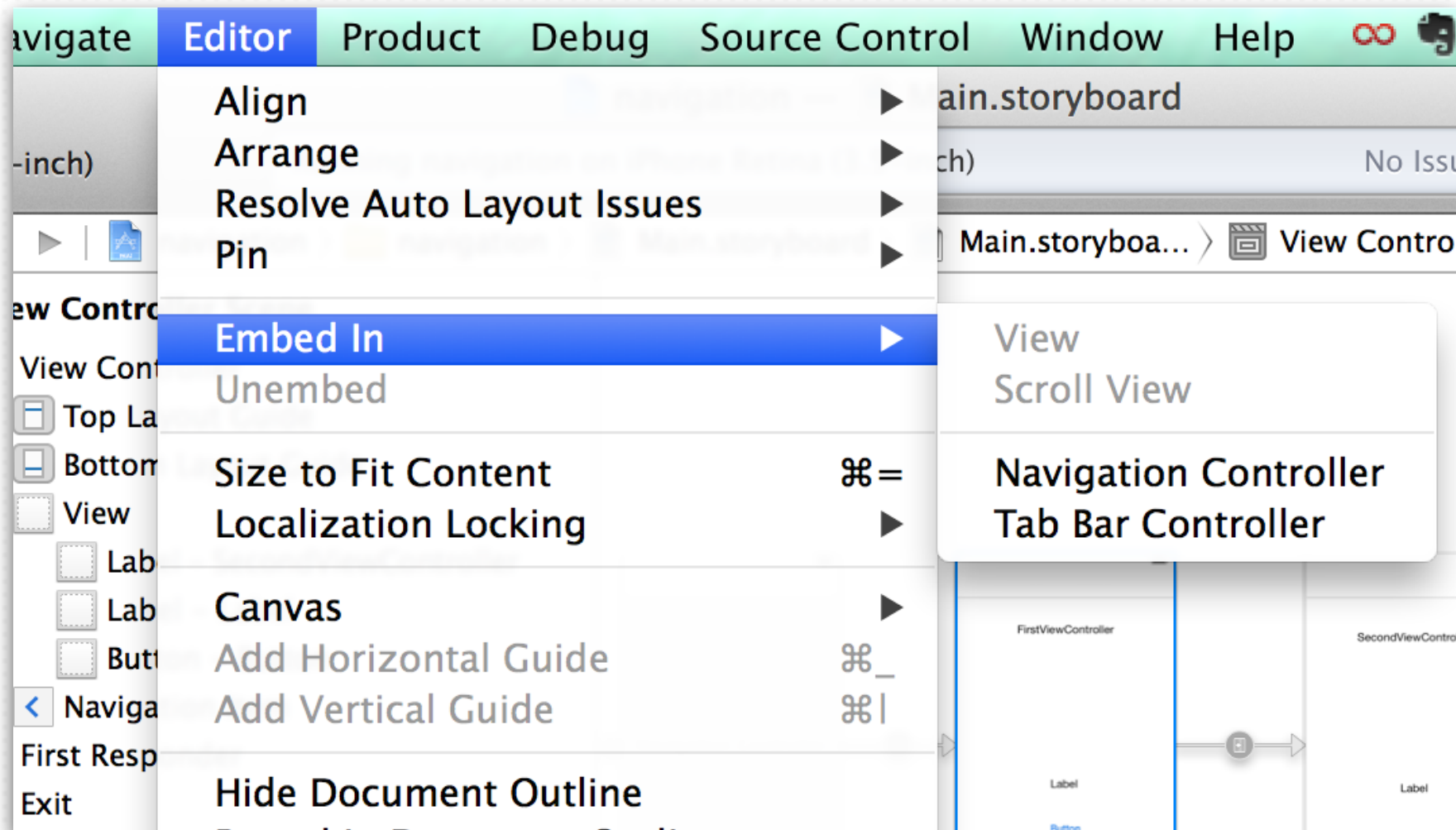viewController

stack

viewController 2

viewController 2

viewController 2

viewController 1

Action: Push

Transit to view controller 2

Navigation Controller

Navigation
Controller

view controller
1

view controller
2

stack

viewController 2

viewController 2

viewController 2

viewController 1

Action: Pop

Transit view controller 2 to view controller 1

Navigation Controller

Embed a navigation Controller in storyboard
✓ select View Controller
✓ Editor -> Embed in -> Navigation Controller
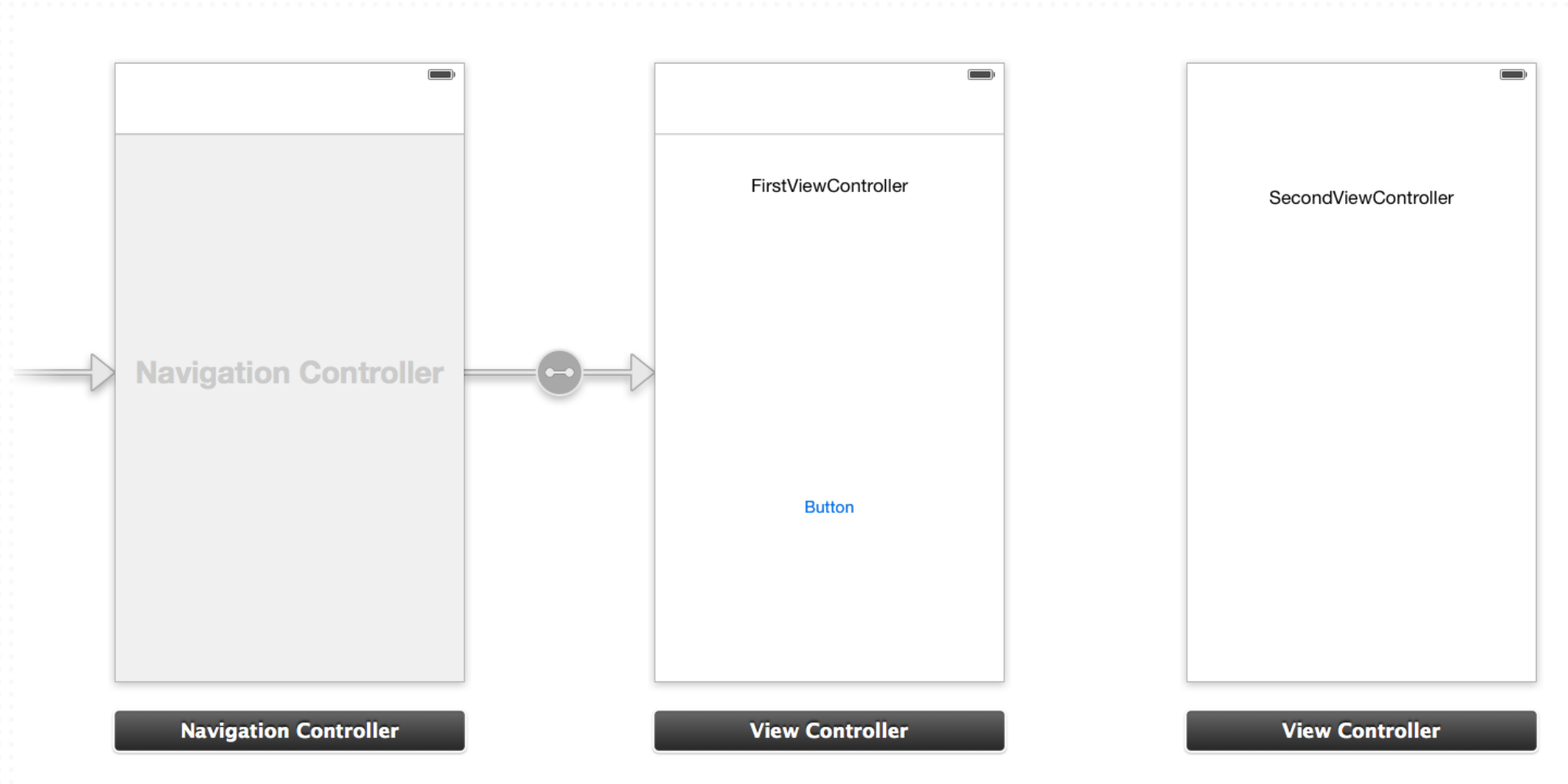
Navigation Controller
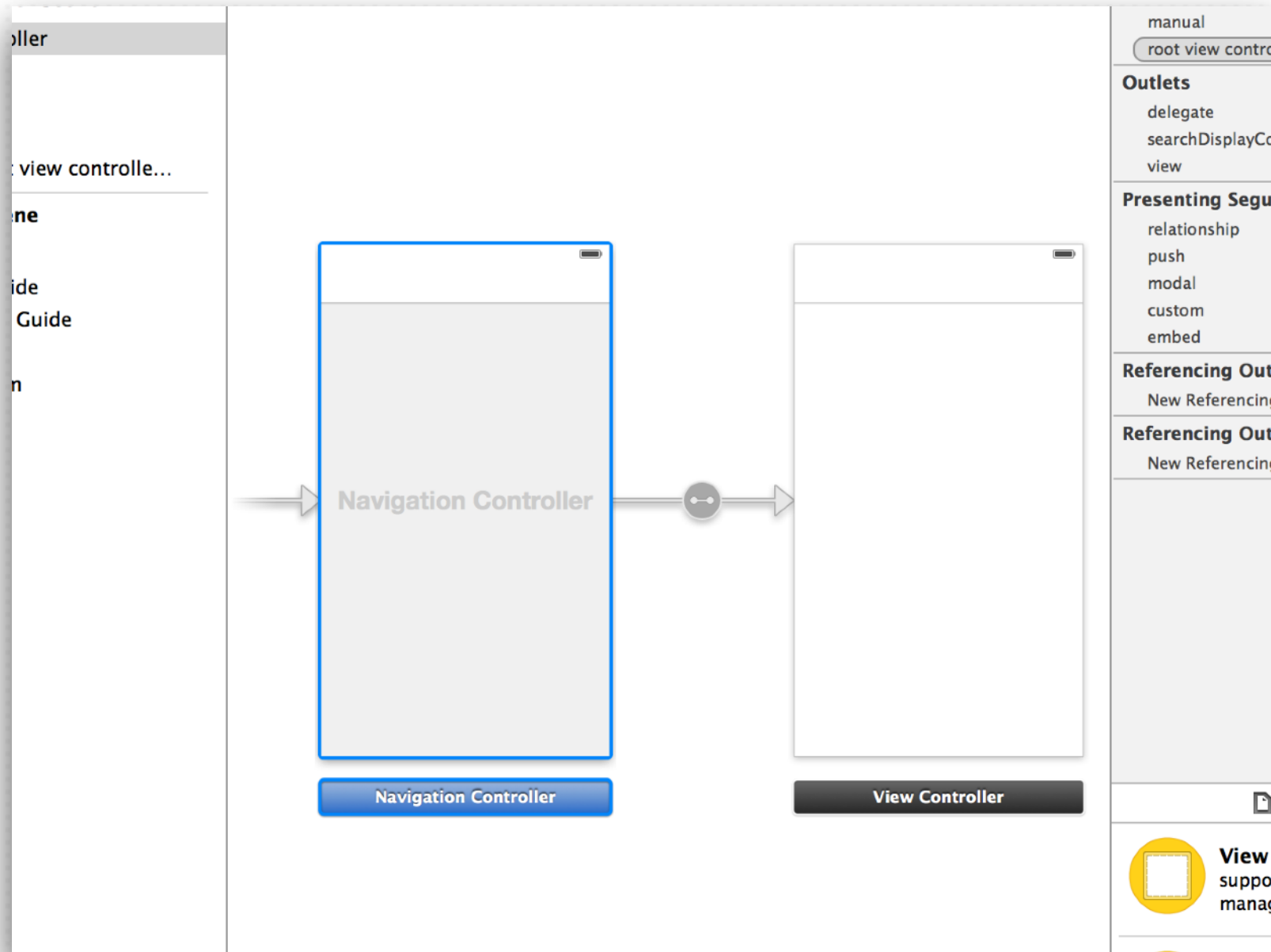
Navigation Controller is put in front of View Controller by default
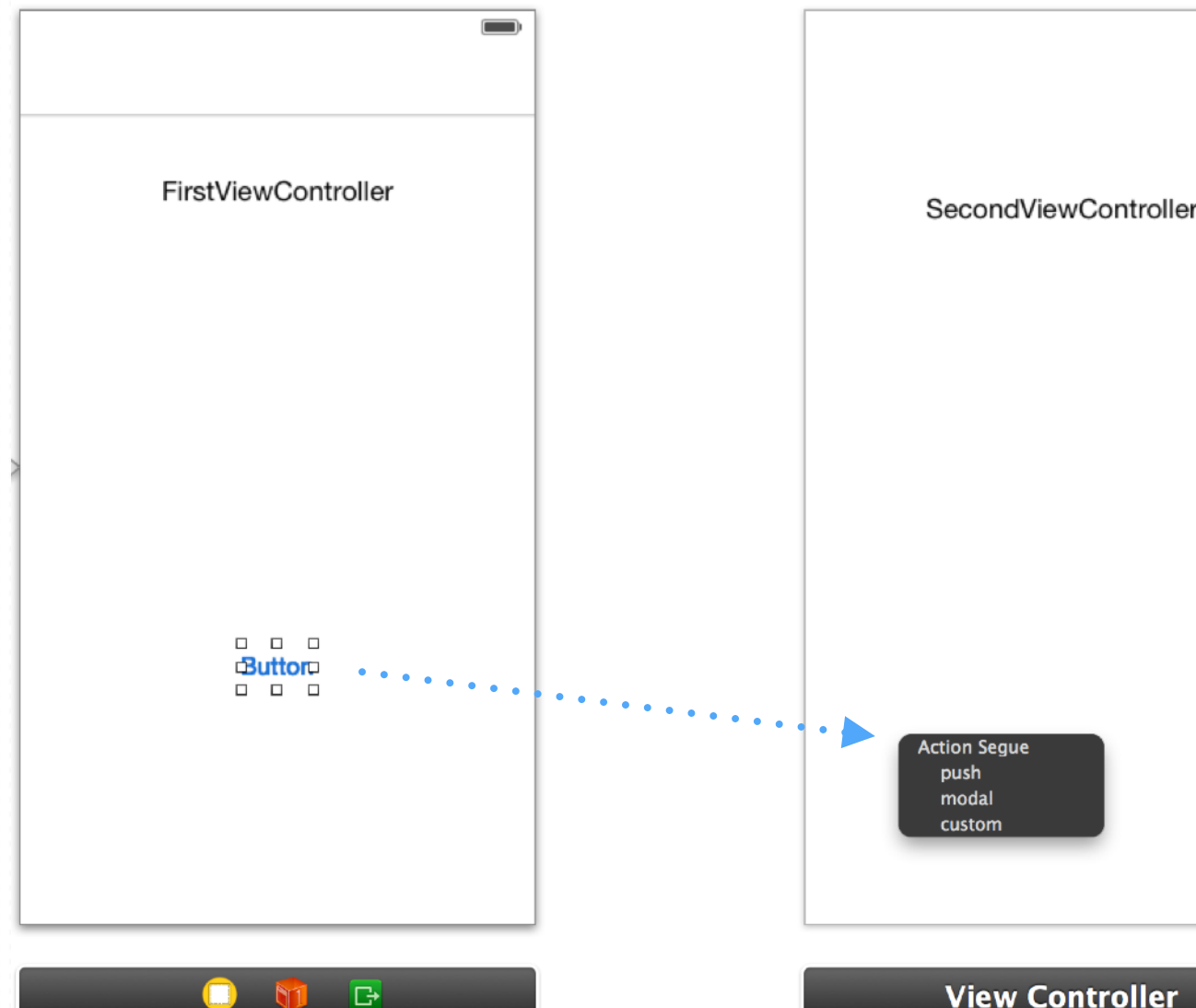
Navigation Controller

- First View Controller (View Controller) transit to Second View Controller(View Controller)
  - ✓ Create a button
  - ✓ Create a new View Controller (Give a label name Second View Controller)
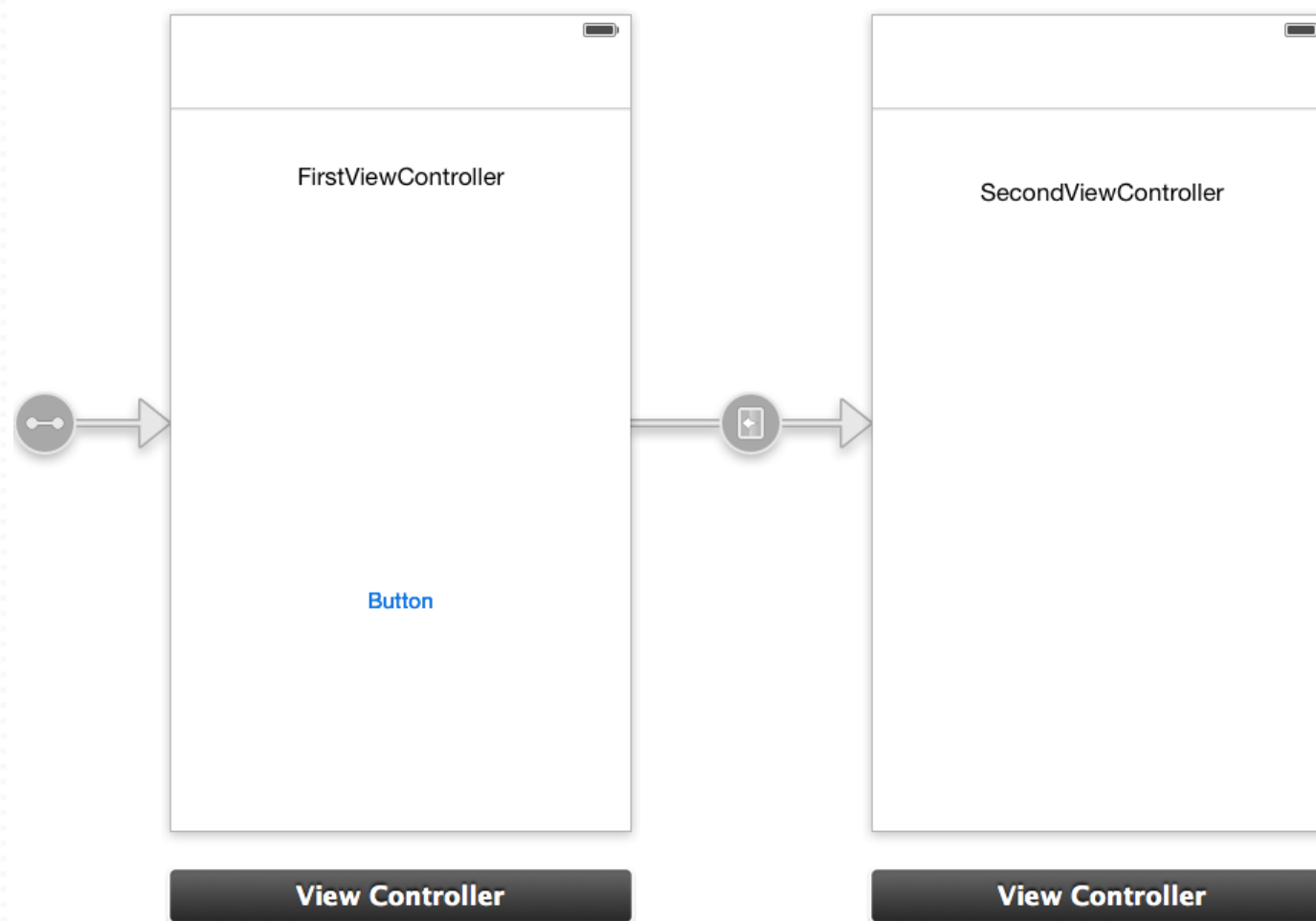
Navigation Controller

Create a new view controller
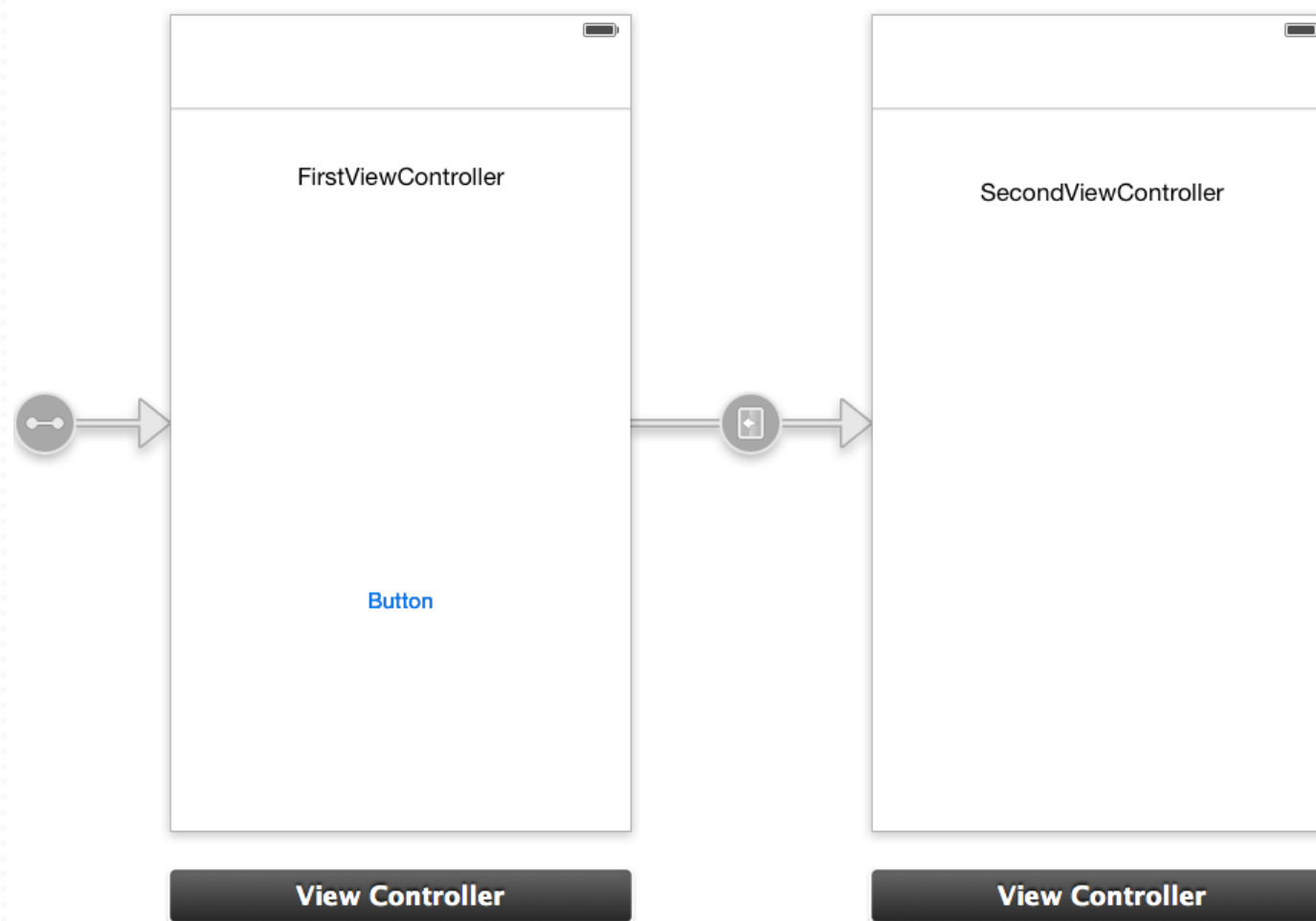
Navigation Controller

Drag (press control + click on button + drag) a button to Second View Controller
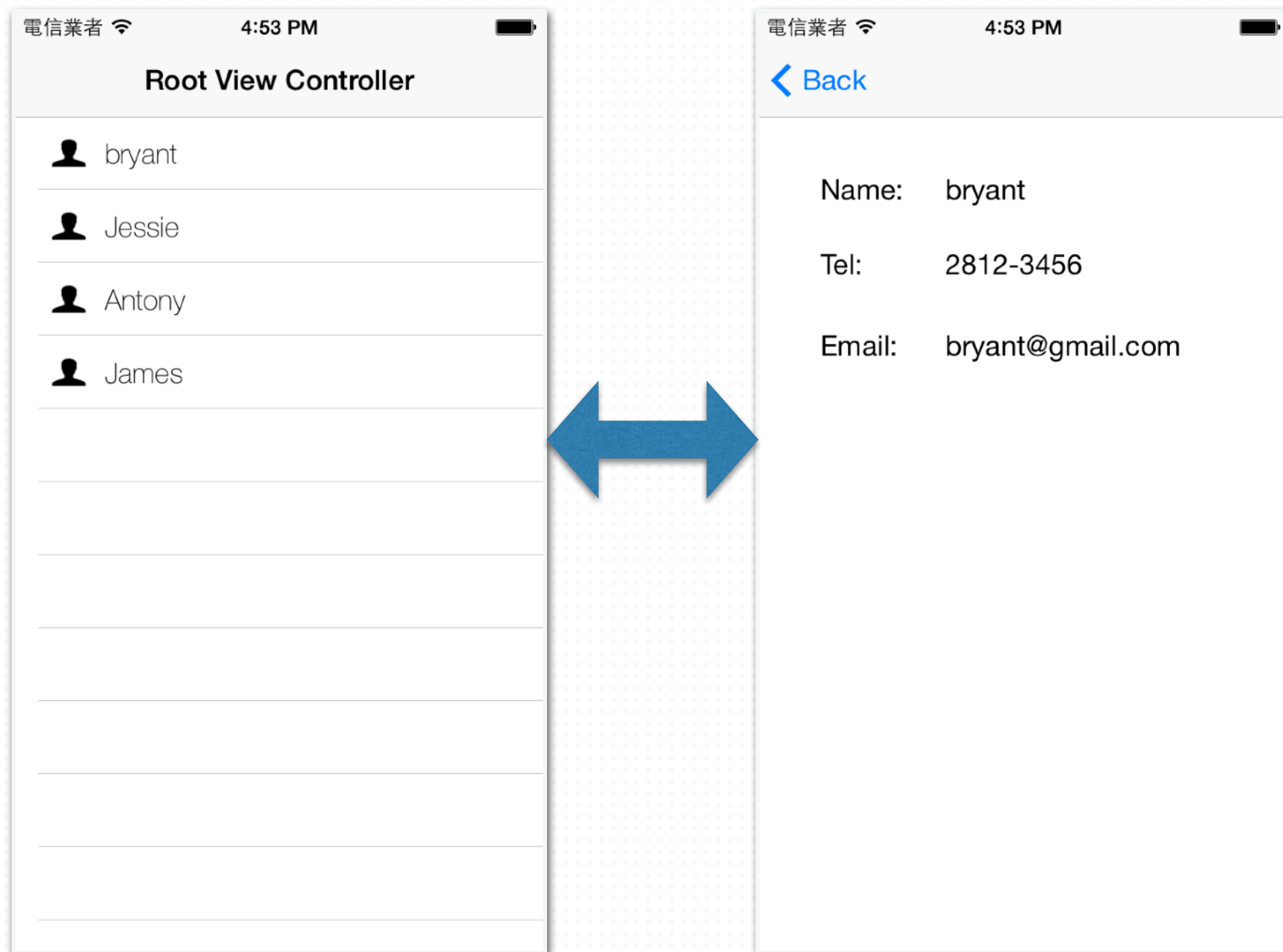
Navigation Controller

create a transition relationship between First View Controller and Second View Controller

Navigation Controller

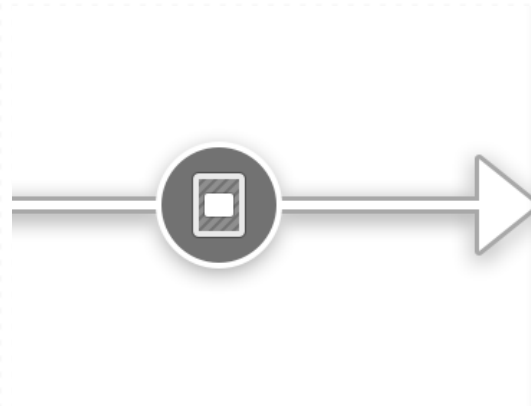create a transition relationship between First View Controller and Second View Controller
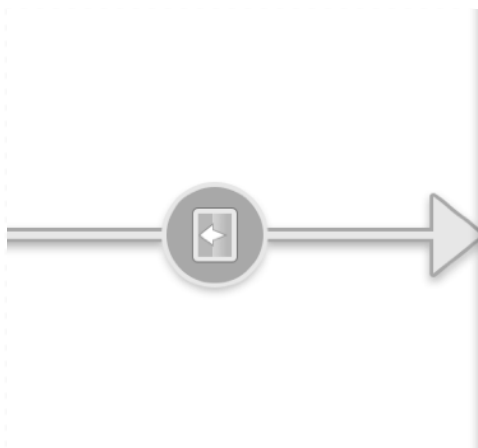
Navigation Controller

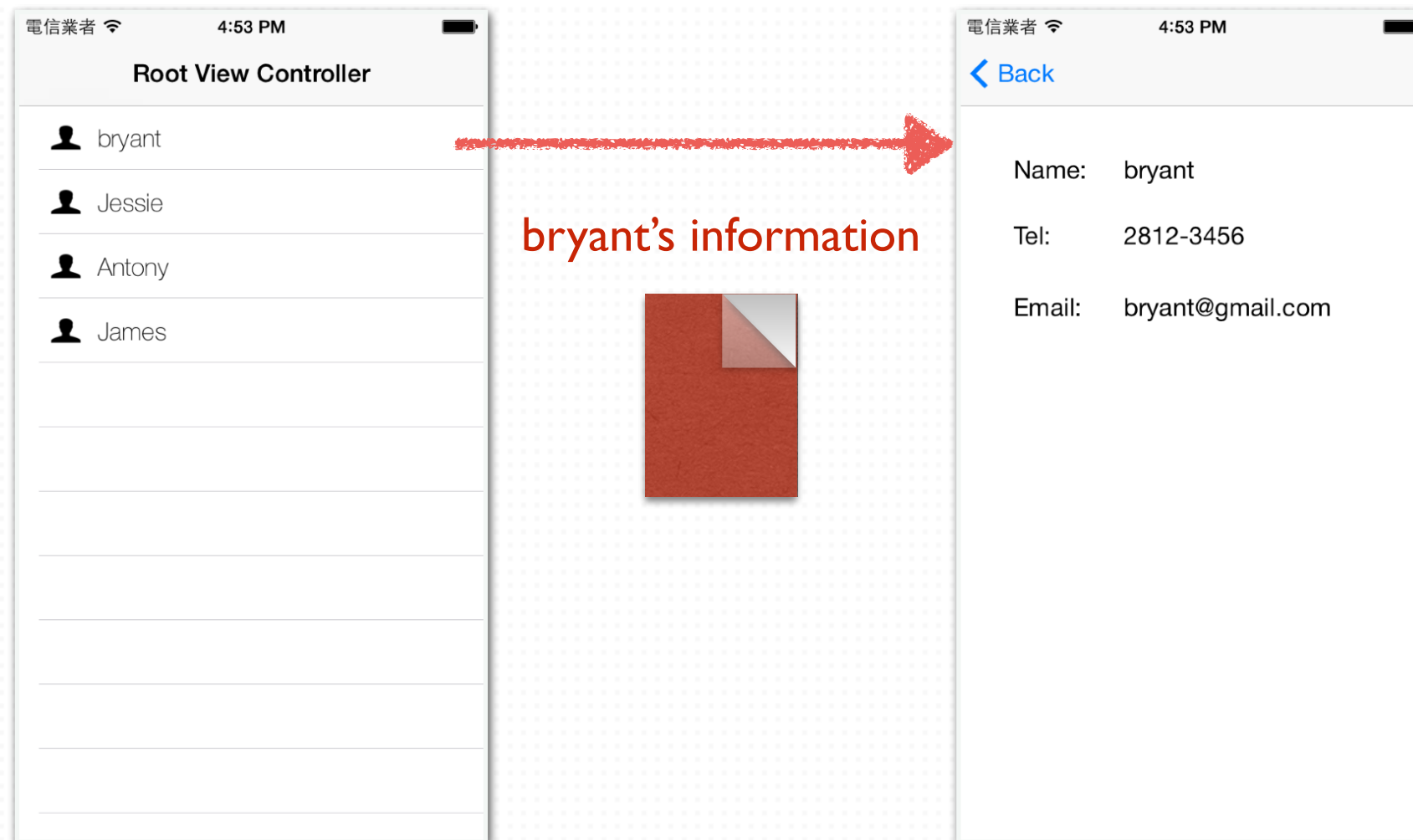

Cooperates with table view controller

Navigation Controller

- Connection between to view controller: **Segue**
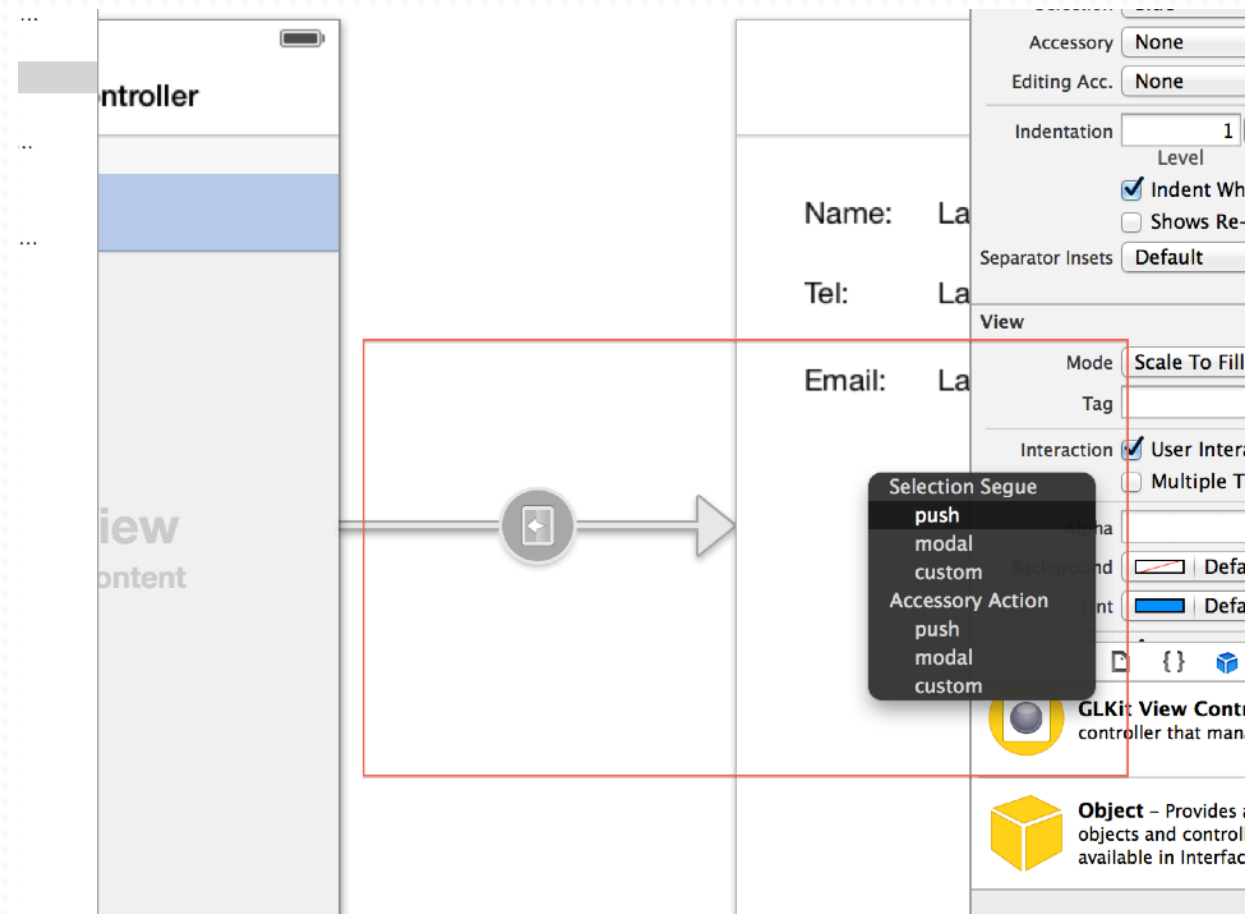 - ✓ Push
  - ✓ Modal
  - ✓ Custom

Navigation Controller

- Passing data from first view controller to second view controller by using segue
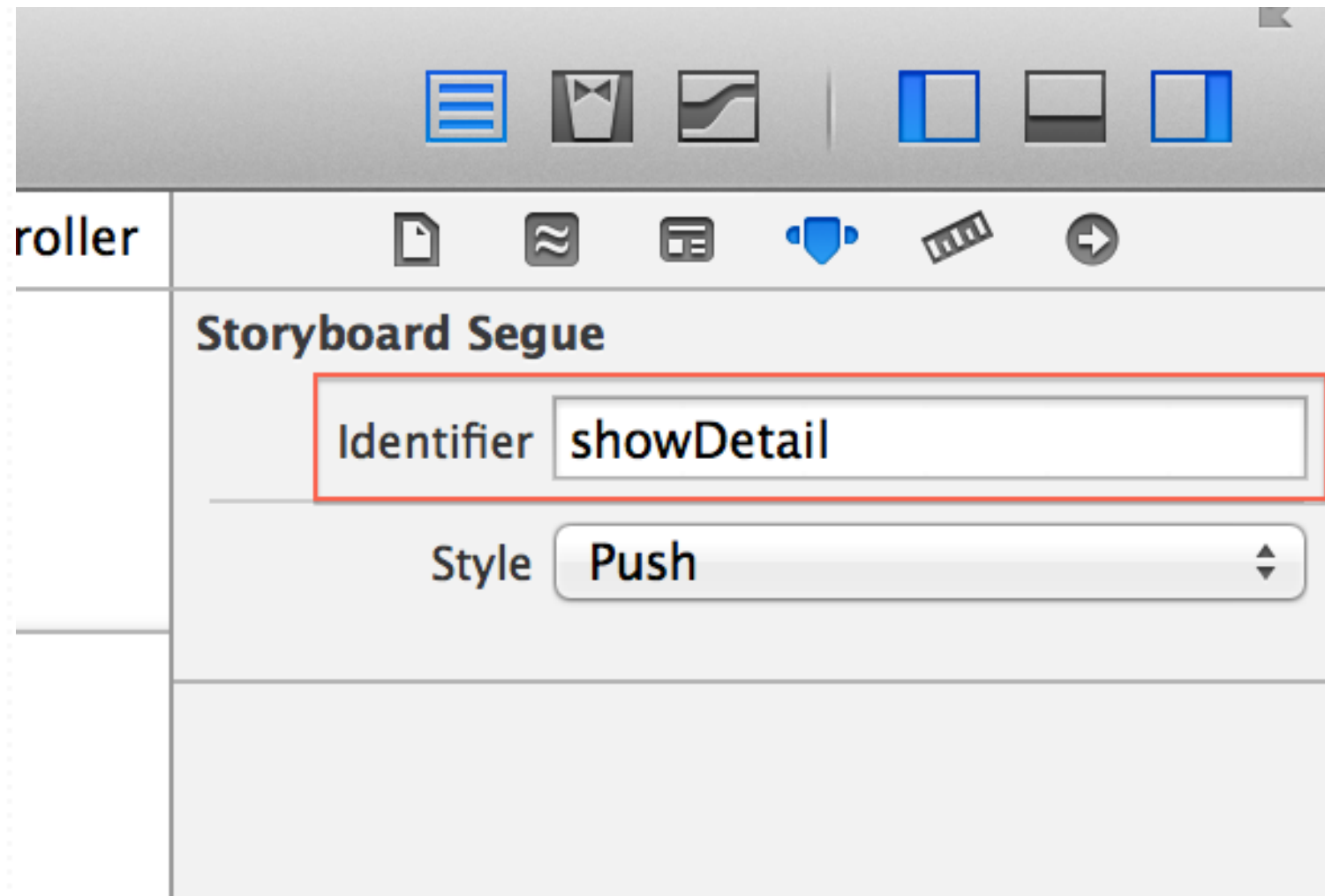
Navigation Controller

- Construct connection between two view controller

Navigation Controller

- To control segue you have to assign an id to segue identifier (unique)

Navigation Controller

```objectivec
-(void)prepareForSegue:(UIStoryboardSegue *)segue sender:(id)sender {

    if ([segue.identifier isEqualToString:@"showDetail"]) {
        UIViewController *destViewController = segue.destinationViewController;
        destViewController.property = value;

    }

}
```

- Tell segue to transmit data to second view controller
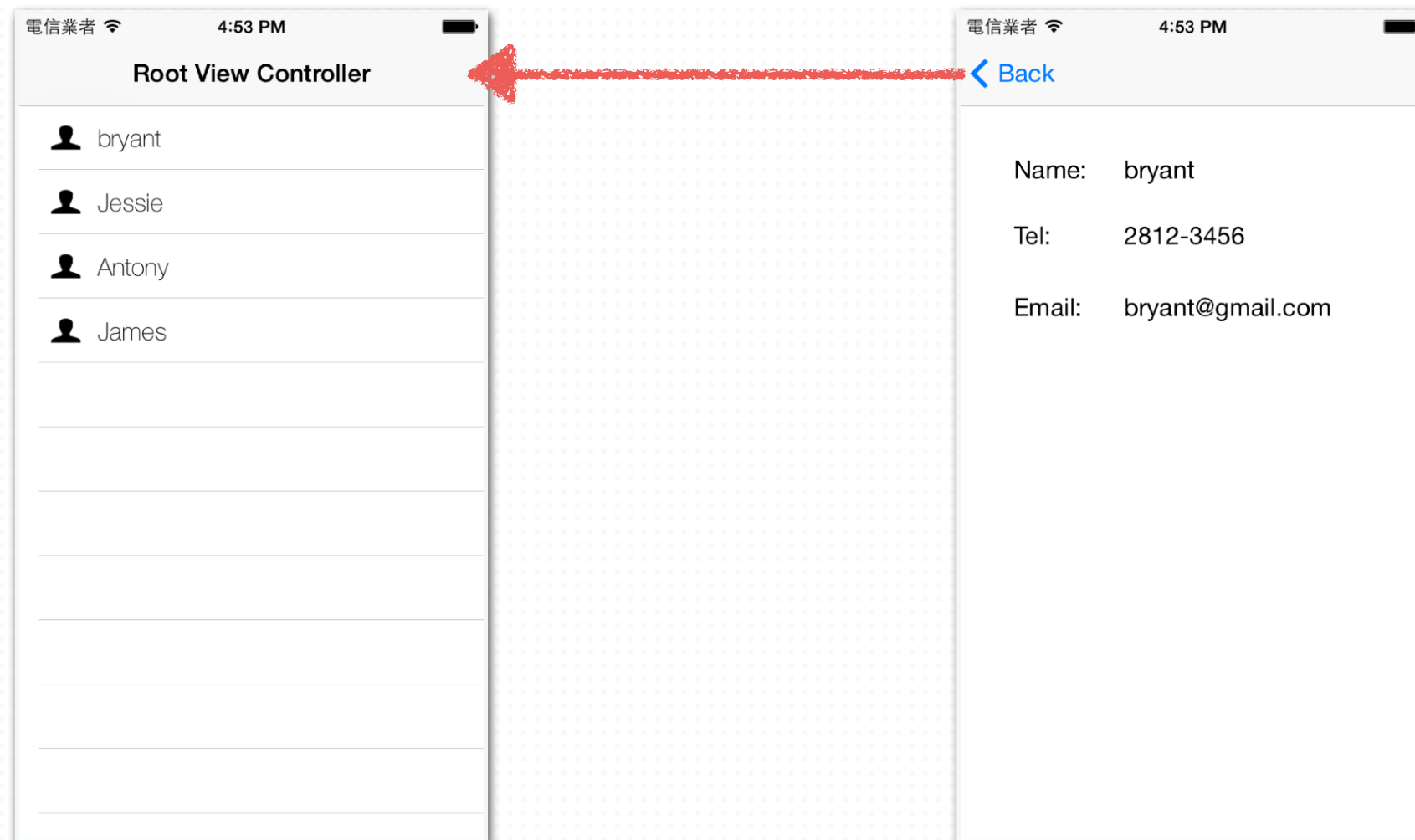
View Lifecycle

View Lifecycle

- viewDidLoad
- viewDidUnload
- viewWillAppear:
- viewWillDisappear:

} Handle by ViewController

Example

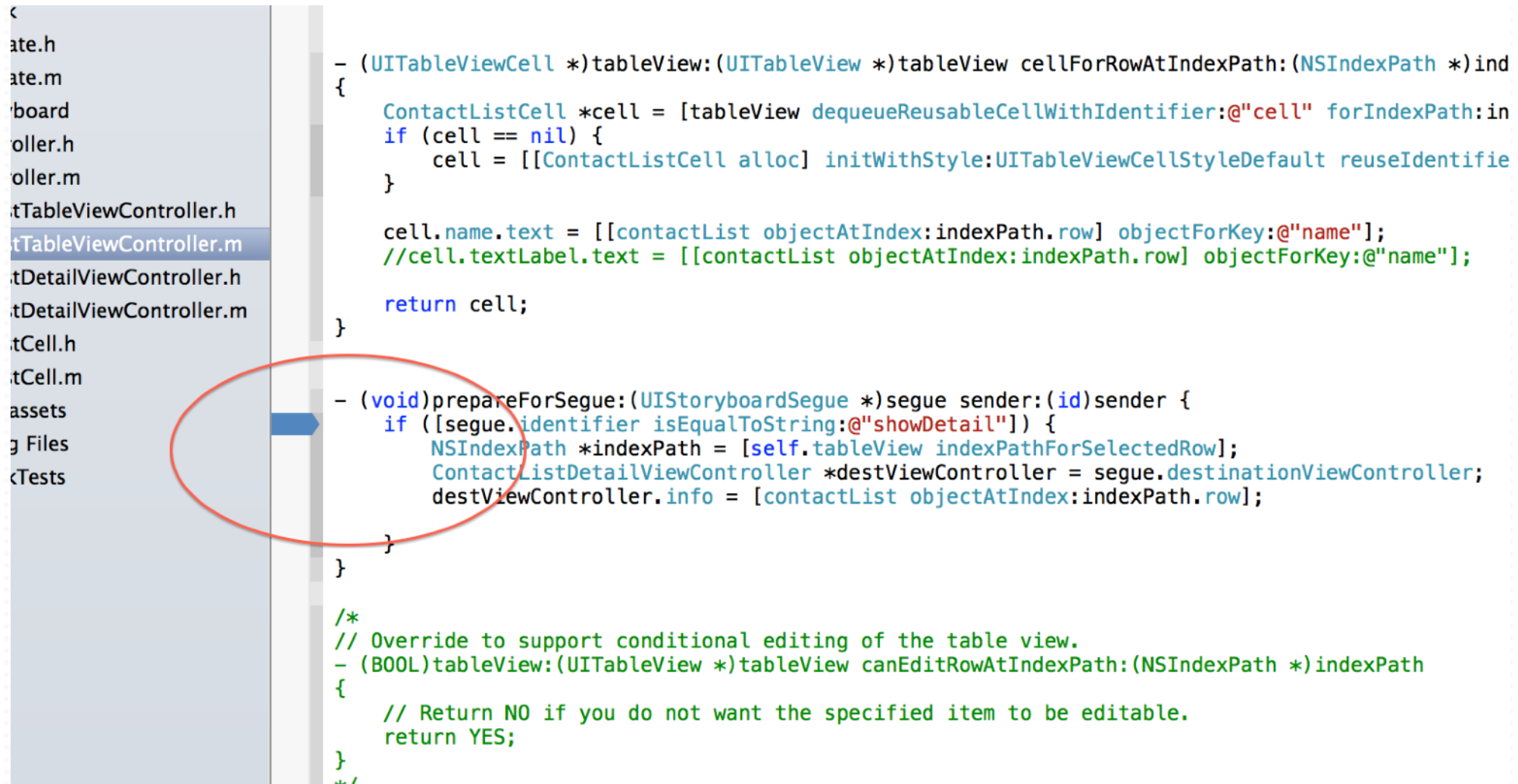- What view cycle would process after pop from children view?

Debug mode

Debug mode

- The way to find the bug more effectively
  - ✓Process check
  - ✓context check
  - ✓logic check

Debug mode

Enable debug mode: click the space on the left of code line

Debug mode

In debug mode

Homework

- A Contact book with different cell style