iPhone App Dev

Lesson 6

Source

https://github.com/bryanttang/iOS-Class-2015-6.git

Contact

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Test

- Scope: All in handout!
- Date: 8/27 (45 minites)
- Grade: 50% of final grade

Project

- Type: Game, Utility
- Demo date: 8/27 (1 hour)
- Grade: 50% of final grade

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
```

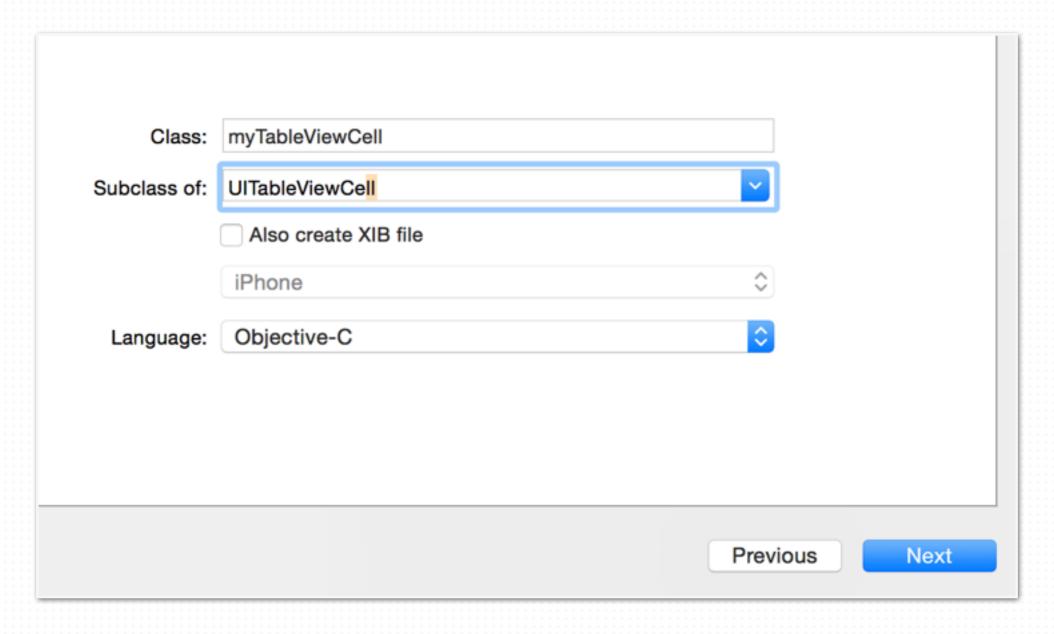
Custom Table View Cell

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

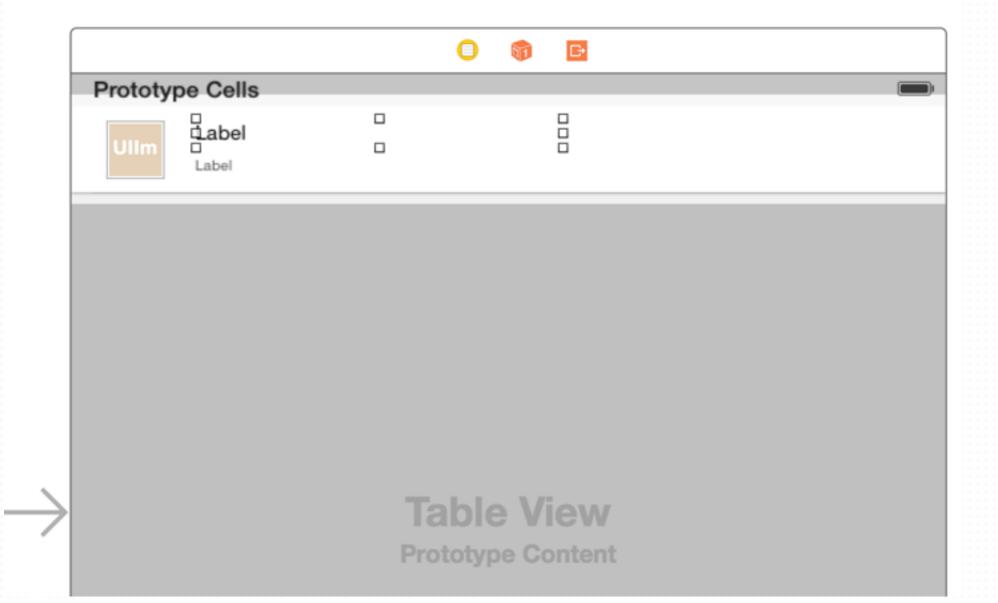
Custom Table View Cell

New a Class inheritance Table View Cell



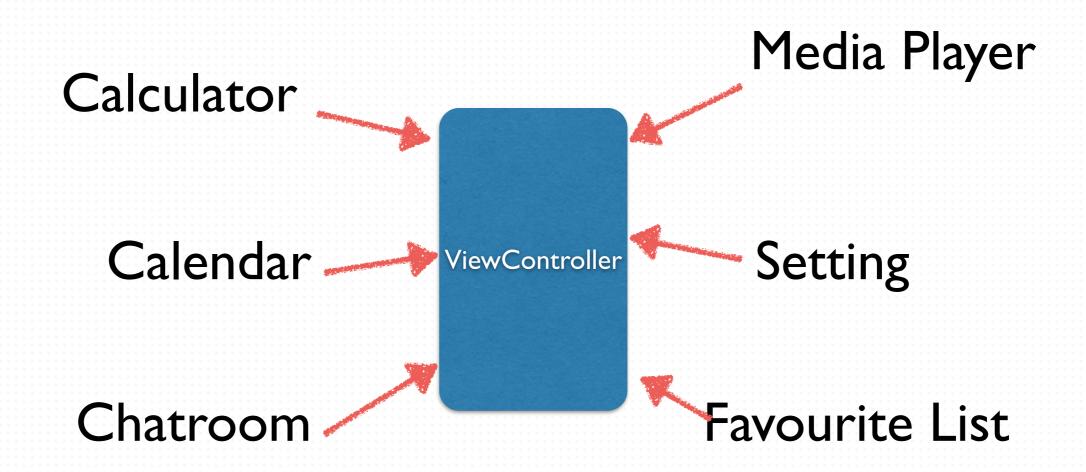
Custom Table View Cell

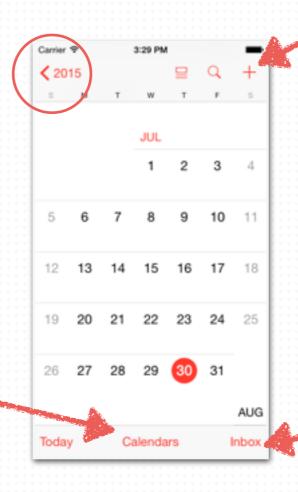
- -Define what information would show on cell (e.g. name, user image, description)
- -Design custom cell UI in storyboard



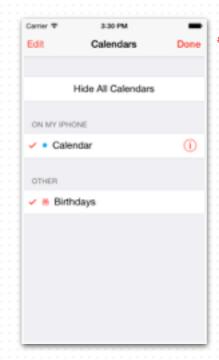
Demo

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

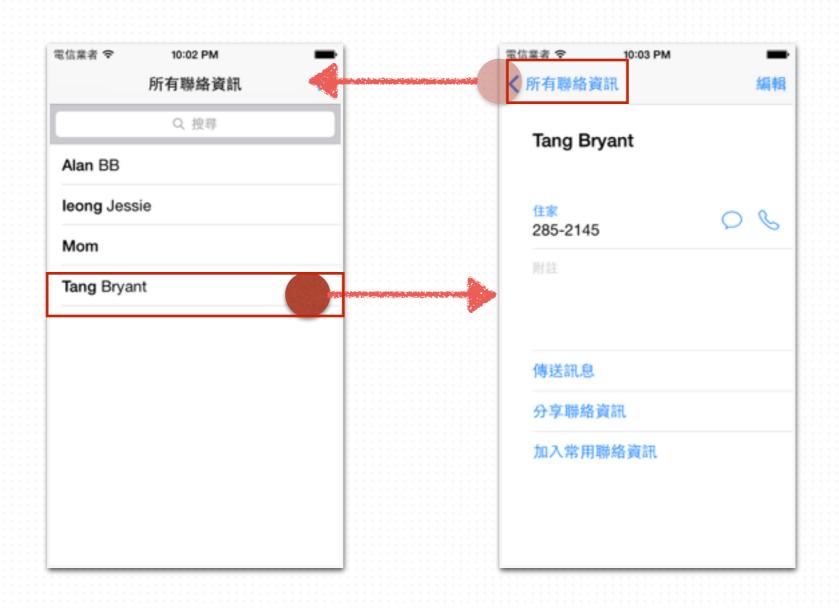


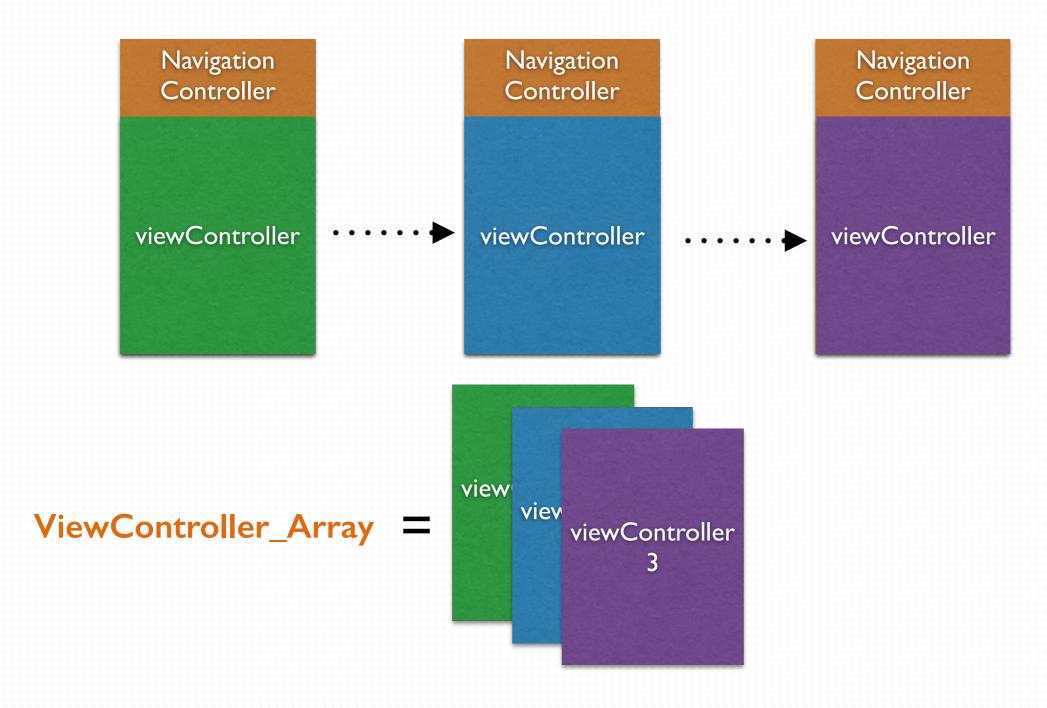




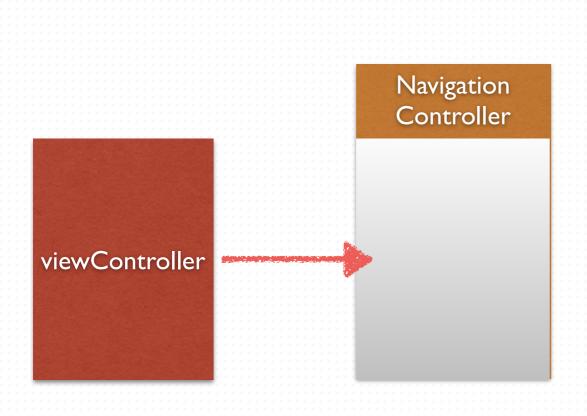


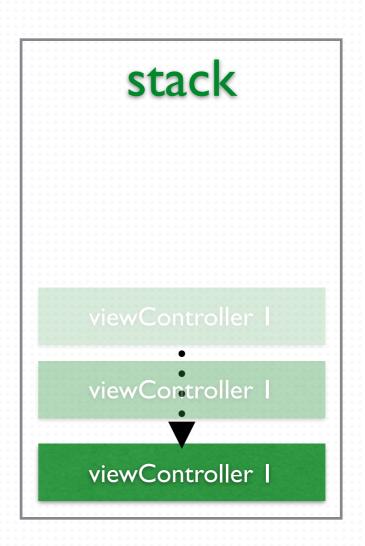




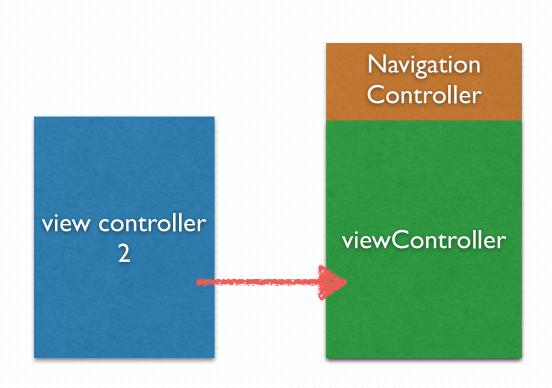


Navigation Controller Manages the navigation of hierarchical content

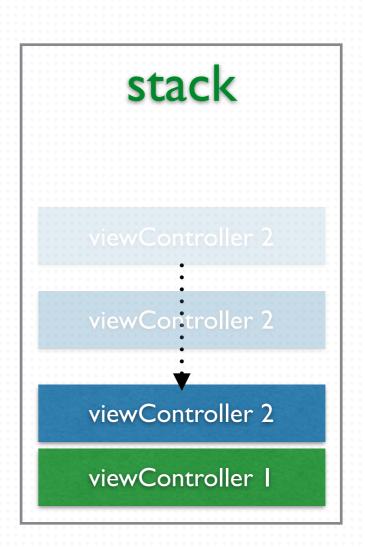




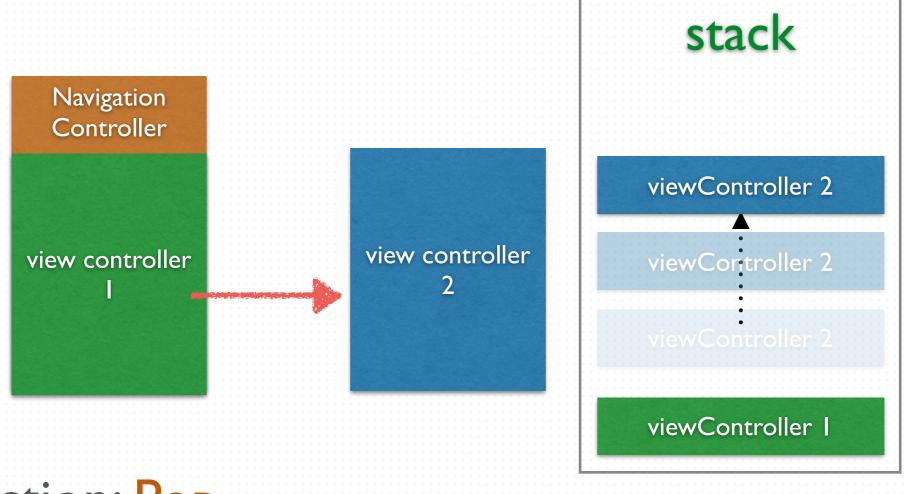
There is at least one ViewController in Navigation Controller - RootViewController



Action: Push

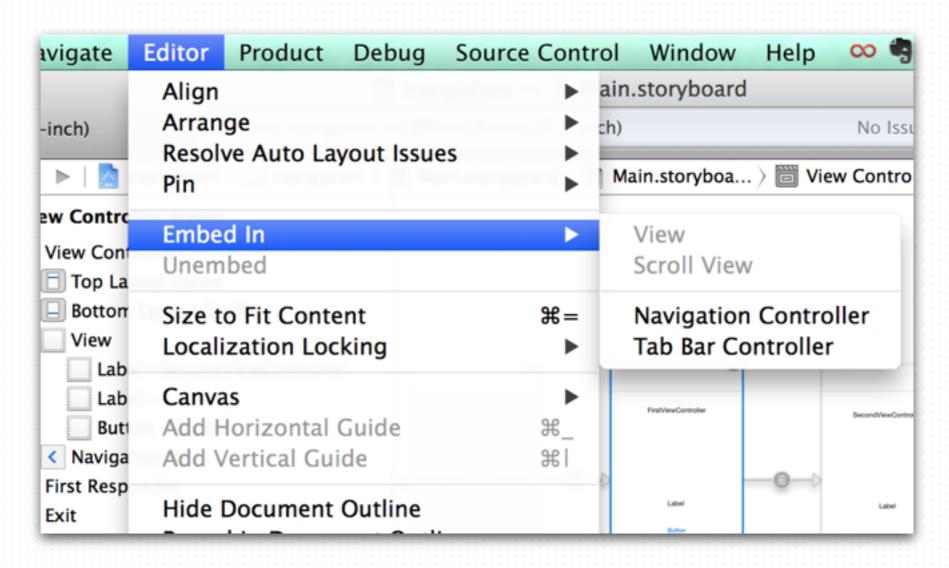


Transit to view controller 2



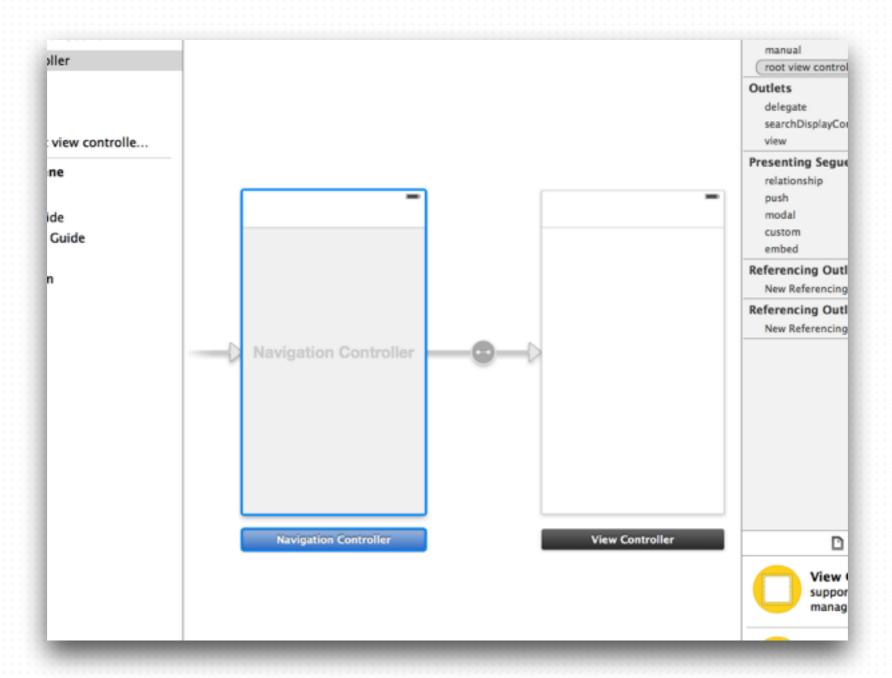
Action: Pop

Transit view controller 2 to view controller I



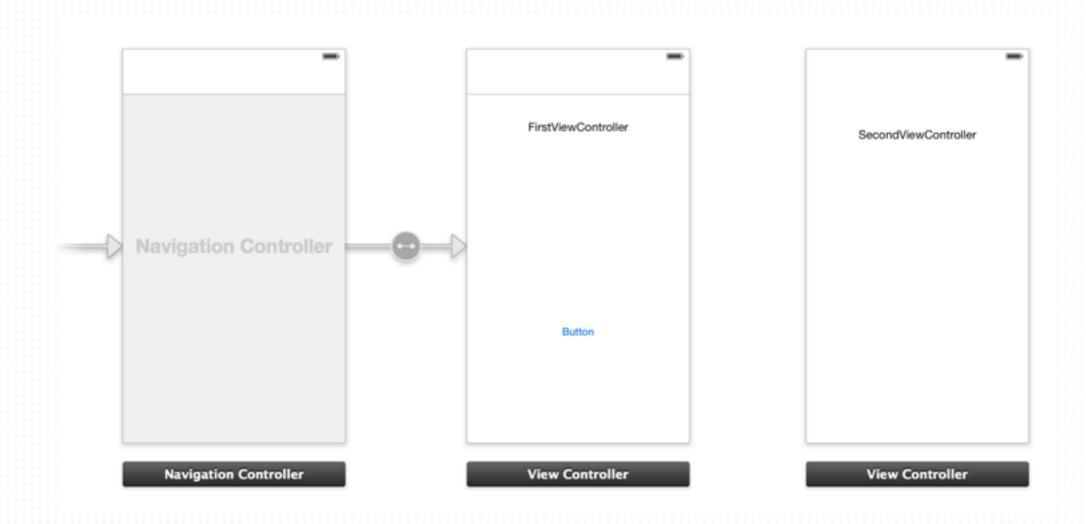
Embed a navigation Controller in storyboard

- √select View Controller
- ✓ Editor -> Embed in -> Navigation Controller

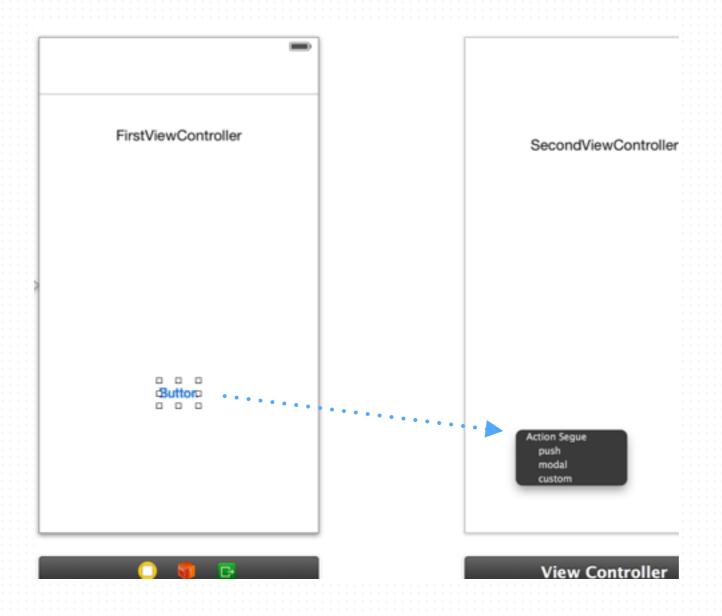


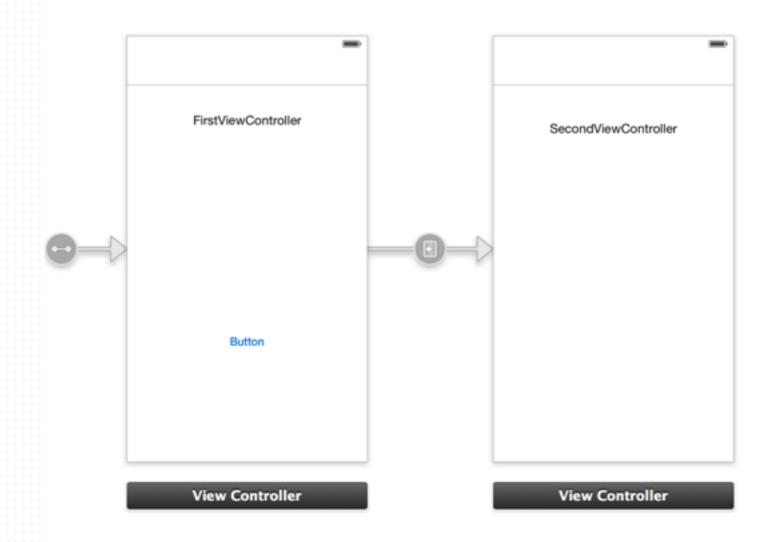
Navigation Controller is put in front of View Controller by default

- 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)

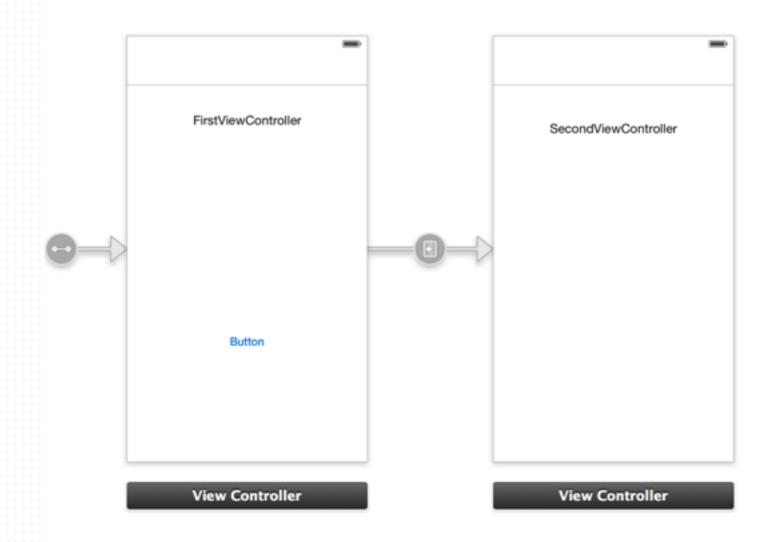


Create a new view controller

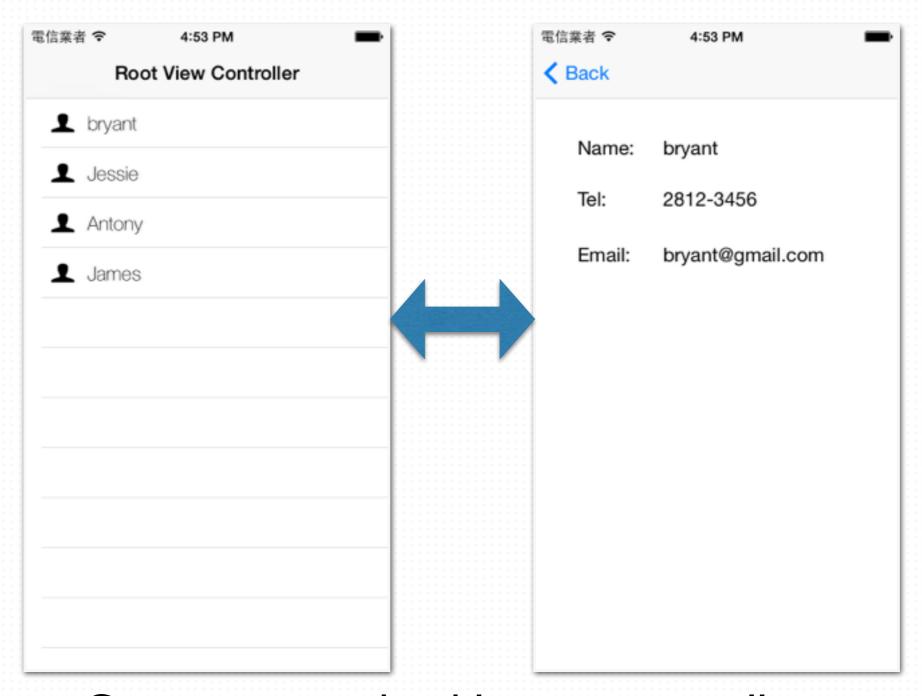




create a transition relationship between First View Controller and Second View Controller

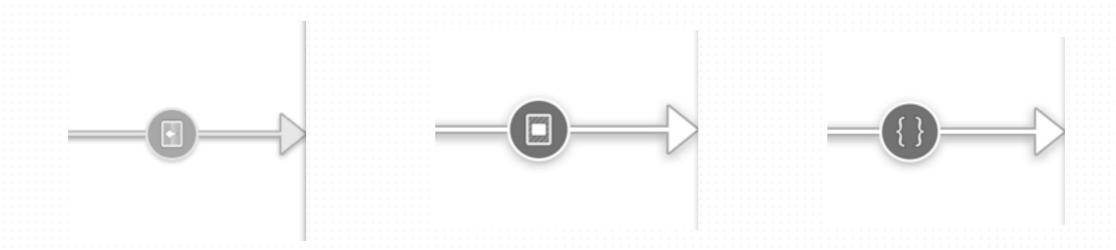


create a transition relationship between First View Controller and Second View Controller

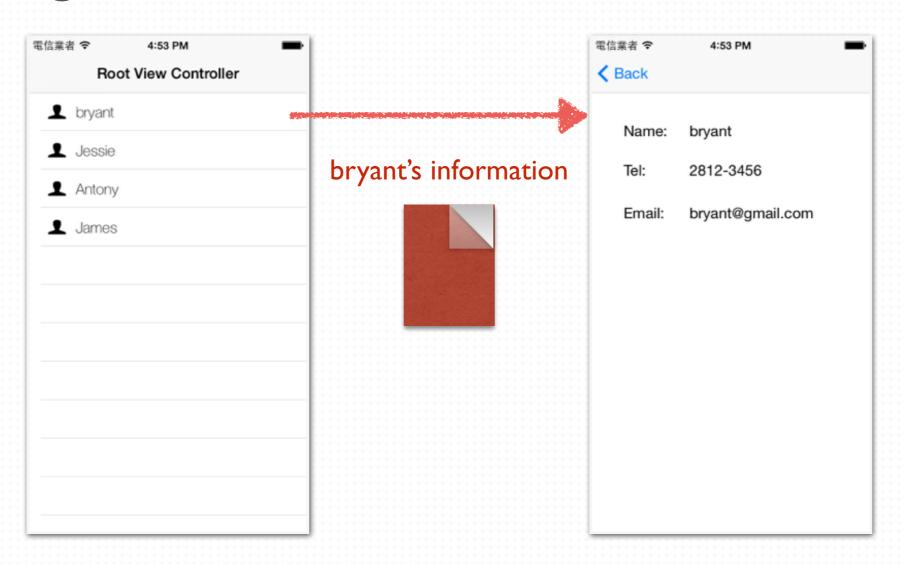


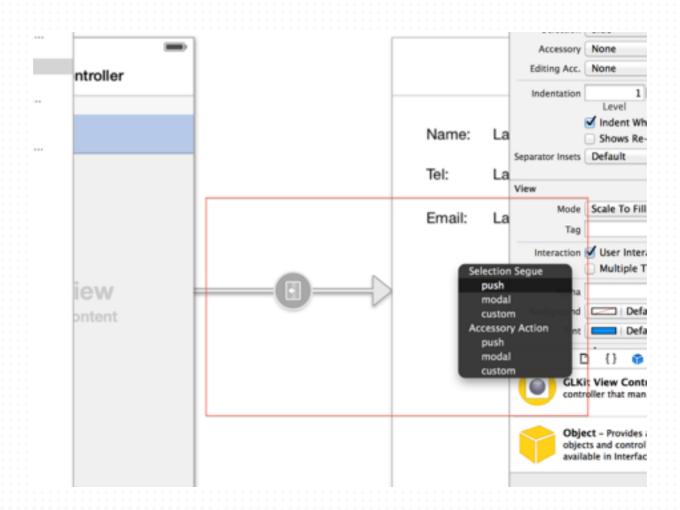
Cooperates with table view controller

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

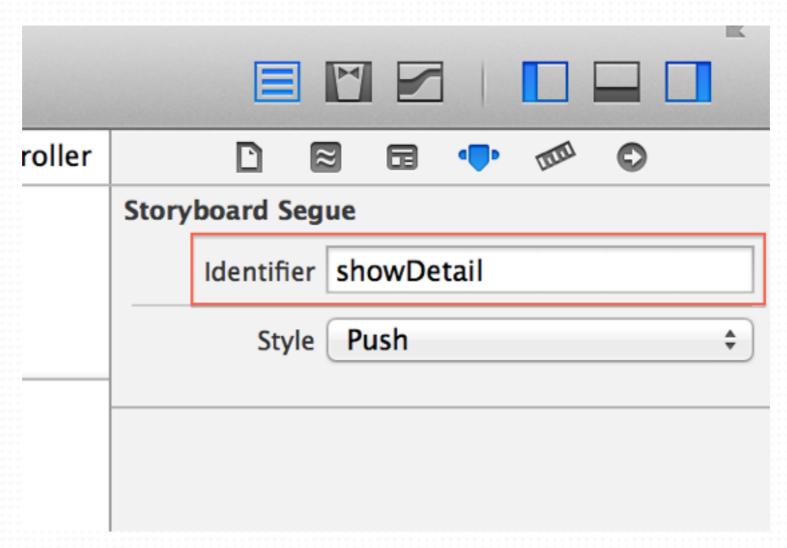


 Passing data from first view controller to second view controller by using segue





Construct connection between two view controller



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

```
-(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

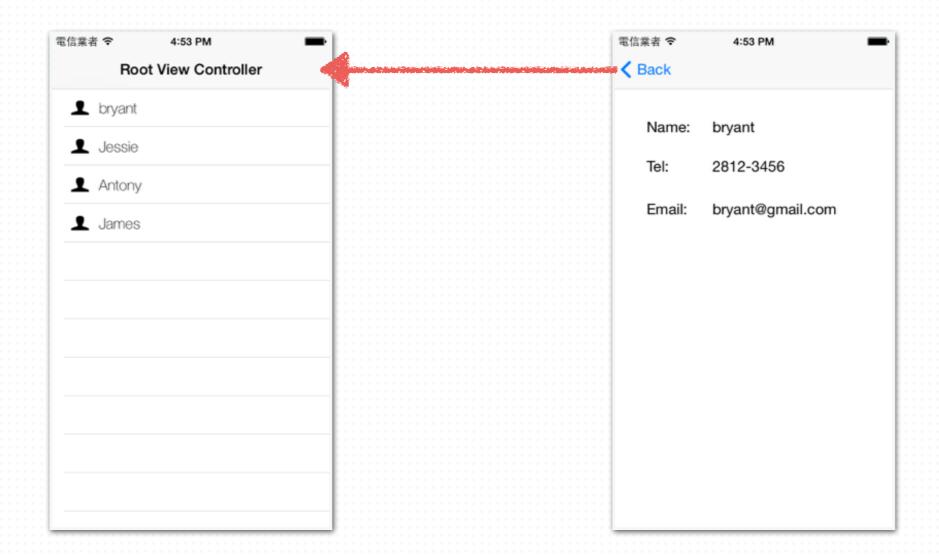
View Lifecycle

- viewDidLoad
- viewDidUnload
- viewWillAppear:
- viewWillDisappear:

Handle by ViewController

Example

 What view cycle would process after pop from children view?



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

```
ate.h
                           - (UITableViewCell *)tableView:(UITableView *)tableView cellForRowAtIndexPath:(NSIndexPath *)ind
ate.m
                               ContactListCell *cell = [tableView dequeueReusableCellWithIdentifier:@"cell" forIndexPath:in
board
                               if (cell == nil) {
oller.h
                                   cell = [[ContactListCell alloc] initWithStyle:UITableViewCellStyleDefault reuseIdentifie
oller.m
tTableViewController.h
                               cell.name.text = [[contactList objectAtIndex:indexPath.row] objectForKey:@"name"];
tTableViewController.m
                               //cell.textLabel.text = [[contactList objectAtIndex:indexPath.row] objectForKey:@"name"];
tDetailViewController.h
                               return cell;
tDetailViewController.m
                           }
tCell.h
tCell.m
                           - (void)prepareForSeque:(UIStoryboardSeque *)seque sender:(id)sender {
assets
                               if ([segue.identifier isEqualToString:@"showDetail"]) {
Files
                                   NSIndexPath *indexPath = [self.tableView indexPathForSelectedRow];
                                   Contact istDetailViewController *destViewController = segue.destinationViewController;
(Tests
                                   destViewController.info = [contactList objectAtIndex:indexPath.row];
                           // Override to support conditional editing of the table view.
                           - (BOOL)tableView:(UITableView *)tableView canEditRowAtIndexPath:(NSIndexPath *)indexPath
                               // Return NO if you do not want the specified item to be editable.
                               return YES;
```

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

```
cell = [[ContactListCell alloc] initWithStyle:UITableViewCellStyleDefault reuseIdentifier:@"cell"];
}

cell.name.text = [[contactList objectAtIndex:indexPath.row] objectForKey:@"name"];
//cell.textLabel.text = [[contactList objectAtIndex:indexPath.row] objectForKey:@"name"];
return cell;
}

- (void)prepareForSegue:(UIStoryboardSegue *)segue sender:(id)sender {
    if ([segue.identifier isEqualToString:@"showDetail"]) {
        NSIndexPath *indexPath = [self.tableView indexPathForSelectedRow];
        ContactListDetailViewController *destViewController = segue-destinationViewController;
    destViewController.info = [contactList objectAtIndex:indexPath.row];
}

/*

// Override to support conditional editing of the table view.
- (BOOL)tableView:(UITableView *)tableView canEditRowAtIndexPath:(NSIndexPath *)indexPath
{
    // Return NO if you do not want the specified item to be editable.
    return YES;
```

In debug mode

Homework

A Contact book with different cell style