1204315 - Wireless Mobile Application Programming

Manasawee Kaenampornpan
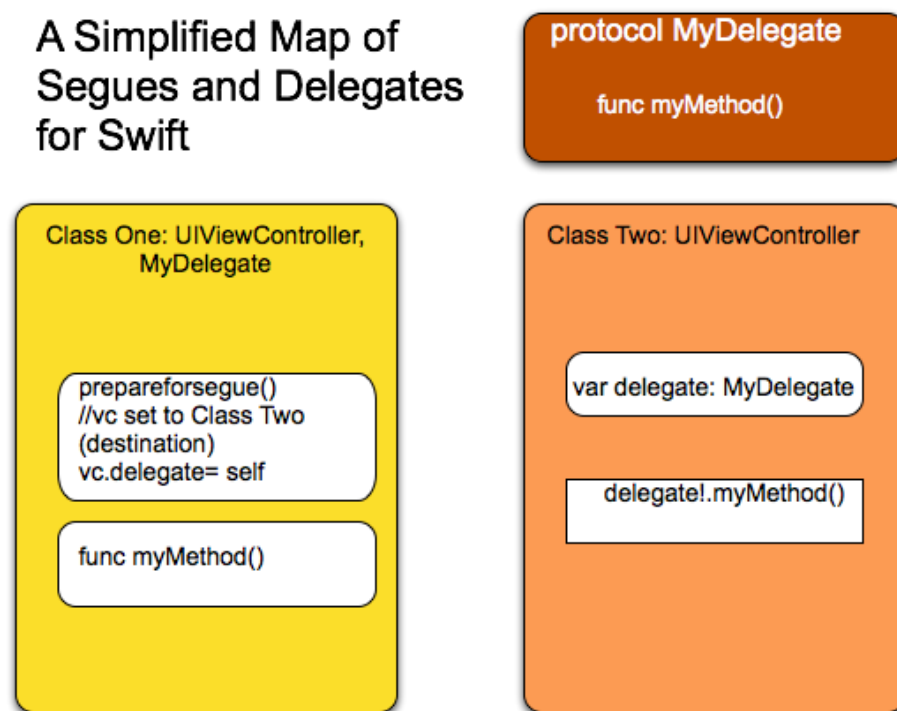
มนัสวี แก่นอำพรพันธ์

manasaweek@gmail.com

Mahasarakham University
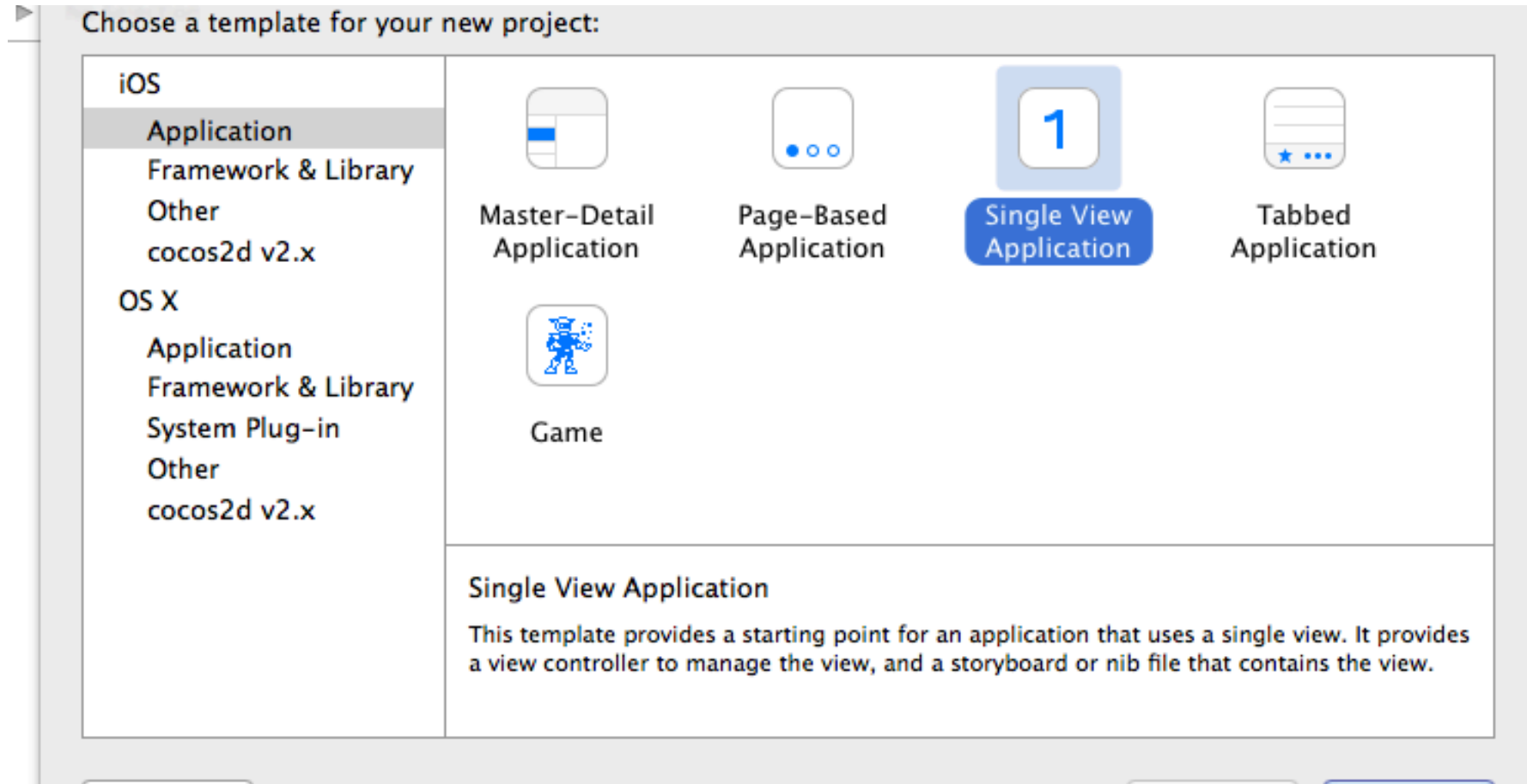
Segue

A Simplified Map of Segues and Delegates for Swift

protocol MyDelegate

func myMethod()

Class One: UIViewController, MyDelegate

prepareforsegue()
//vc set to Class Two (destination)
vc.delegate= self

func myMethod()

Class Two: UIViewController

var delegate: MyDelegate
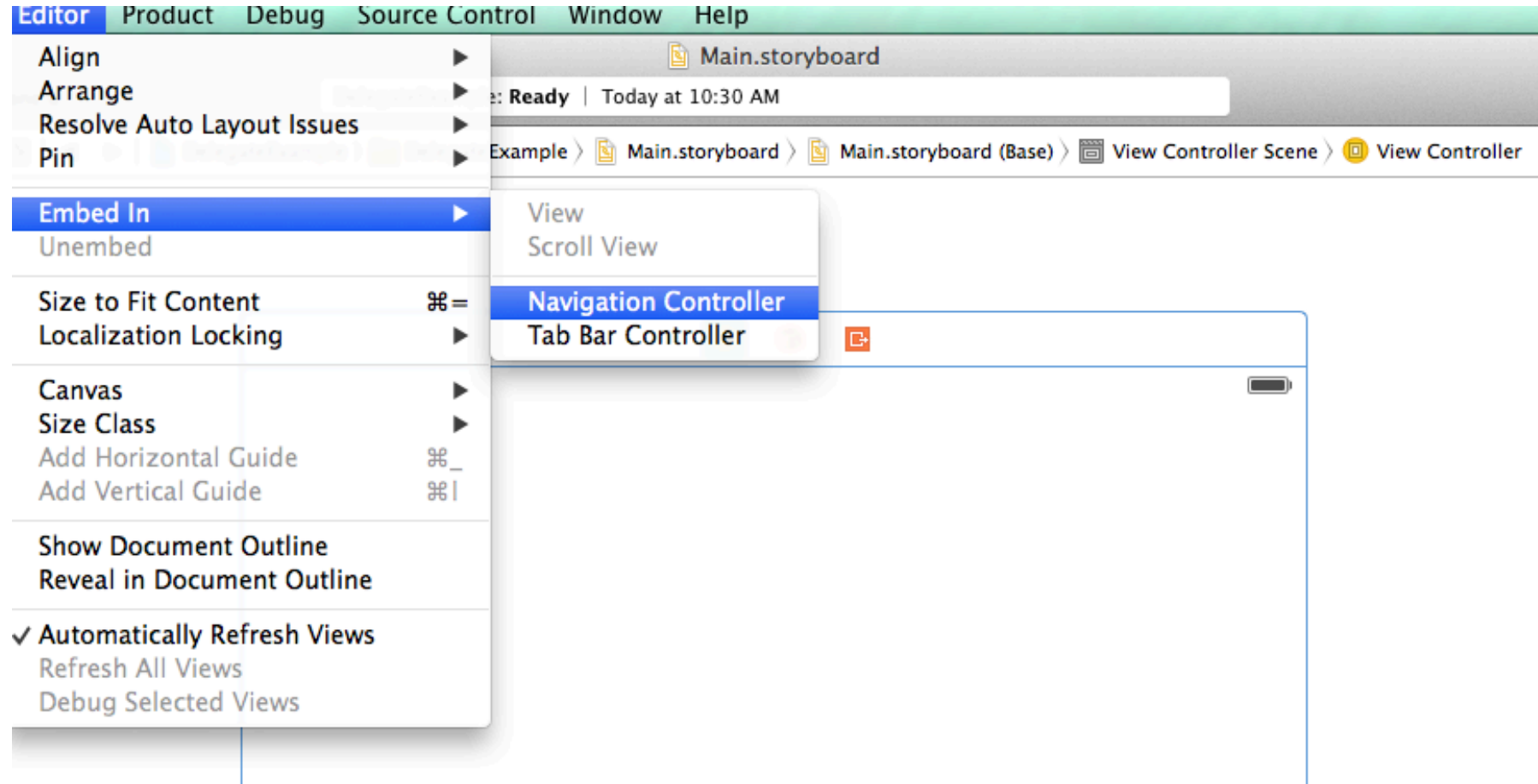
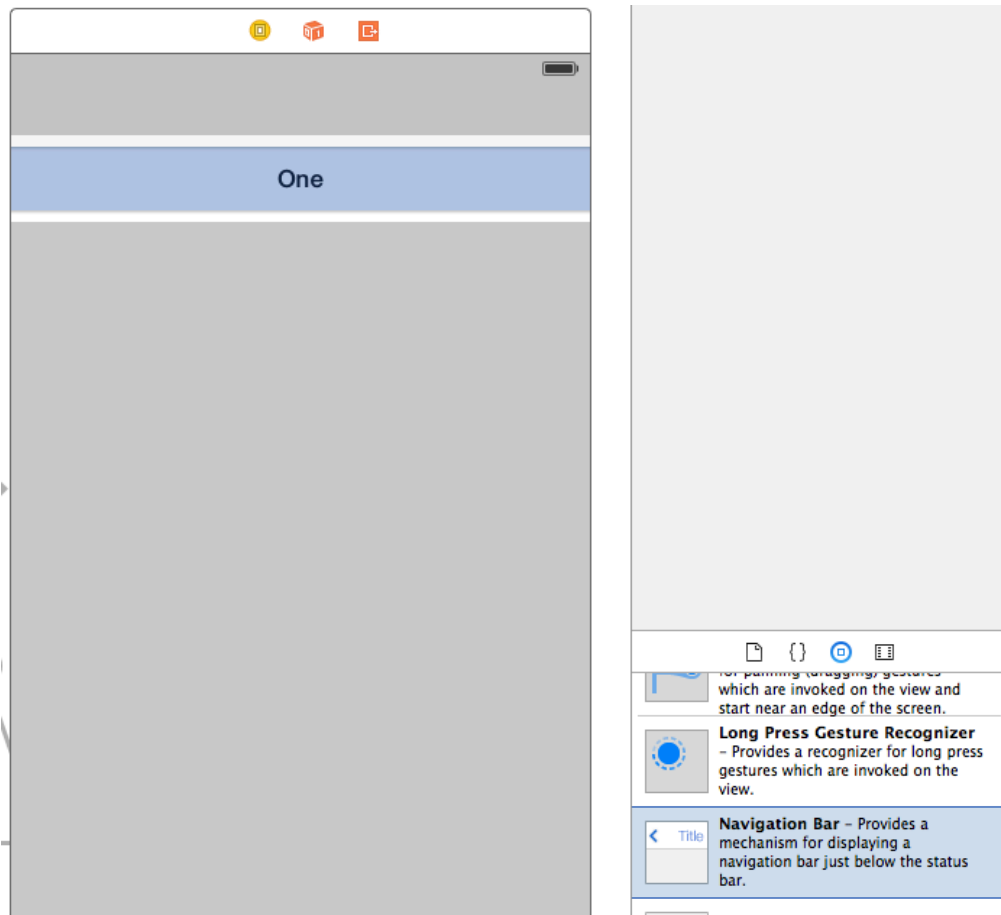delegate!.myMethod()

http://www.MakeAppPie.Com
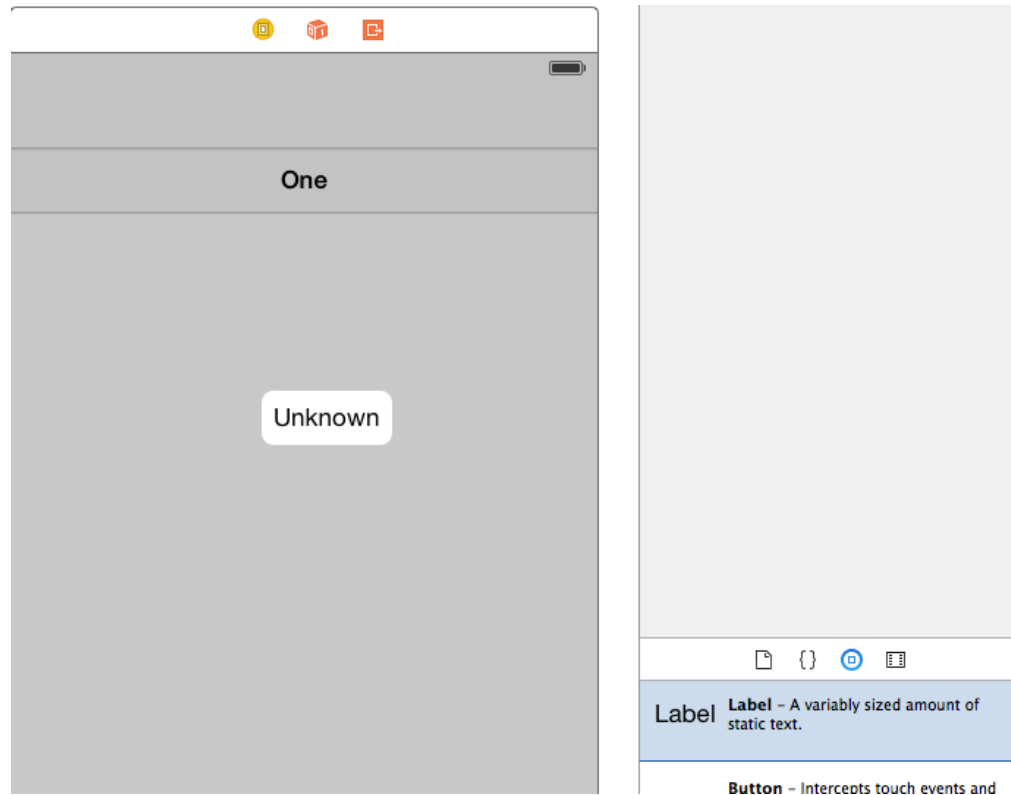
Create single view project

เพิ่ม Editor->Embed In->Navigation Controller

เพิ่ม Navigation Bar

เพิ่ม Label

เพิ่ม Bar Button ที่มุมบน


```swift
@IBAction func colorSelectionButton(sender:
    UIButton) {

    colorLabel.text =
        sender.titleLabel!.text!
}

@IBAction func saveColor(sender:
    UIBarButtonItem) {
    if (delegate != nil) {
        delegate!.myVCDidFinish(self, text:
            colorLabel!.text!)
    }
}

override func viewDidLoad() {
    super.viewDidLoad()

    // Do any additional setup after loading
        the view.
    colorLabel.text = colorString
}
}
```

Toolbar – Provides a mechanism for displaying a toolbar at the bottom of the screen.

Bar Button Item – Represents an item on a UIToolbar or UINavigationItem object.
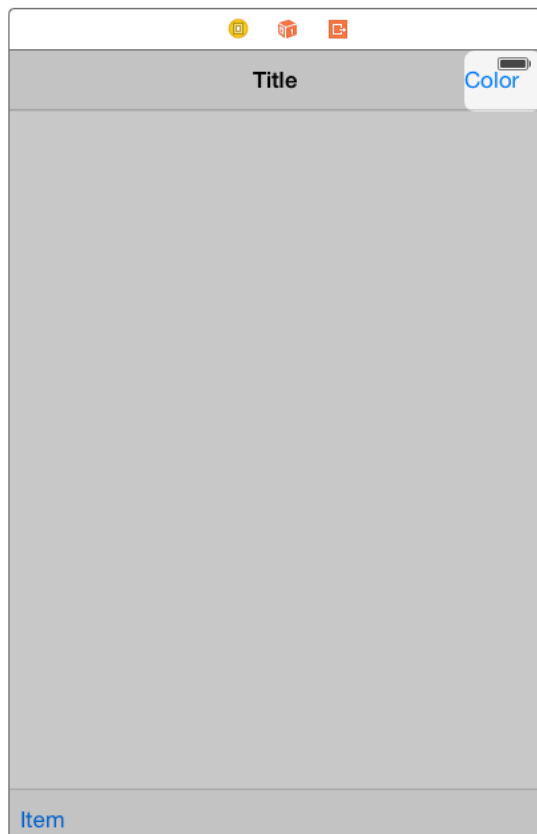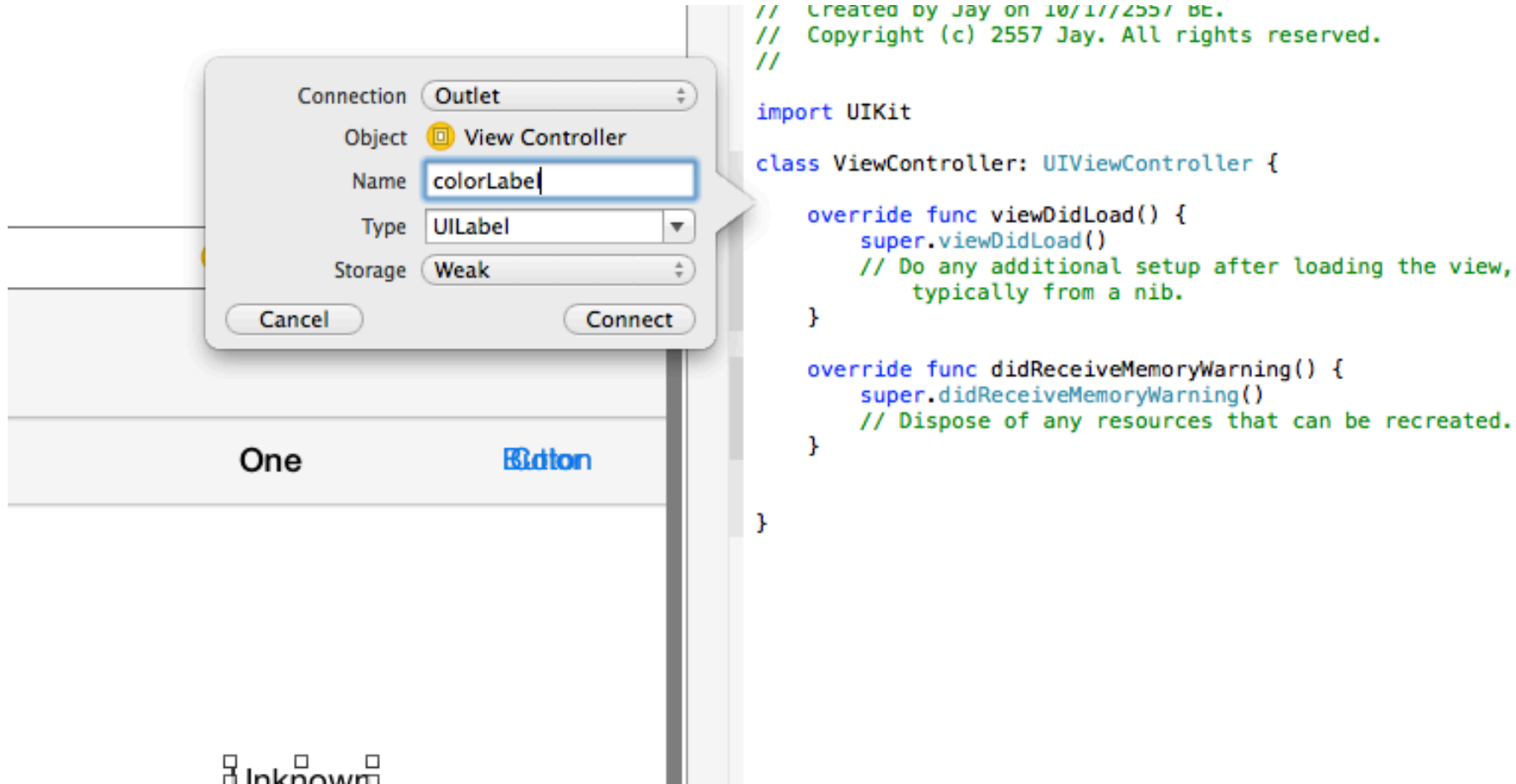
Connect Label to viewController

ลบโค้ดให้เหลือแค่ viewDidLoad

```swift
import UIKit

class ViewController: UIViewController {

    @IBOutlet weak var colorLabel: UILabel!

    override func viewDidLoad() {
        super.viewDidLoad()
        // Do any additional setup after loading the view,
            typically from a nib.
    }

    override func didReceiveMemoryWarning() {
        super.didReceiveMemoryWarning()
        // Dispose of any resources that can be recreated.
    }

}
```

จะได้
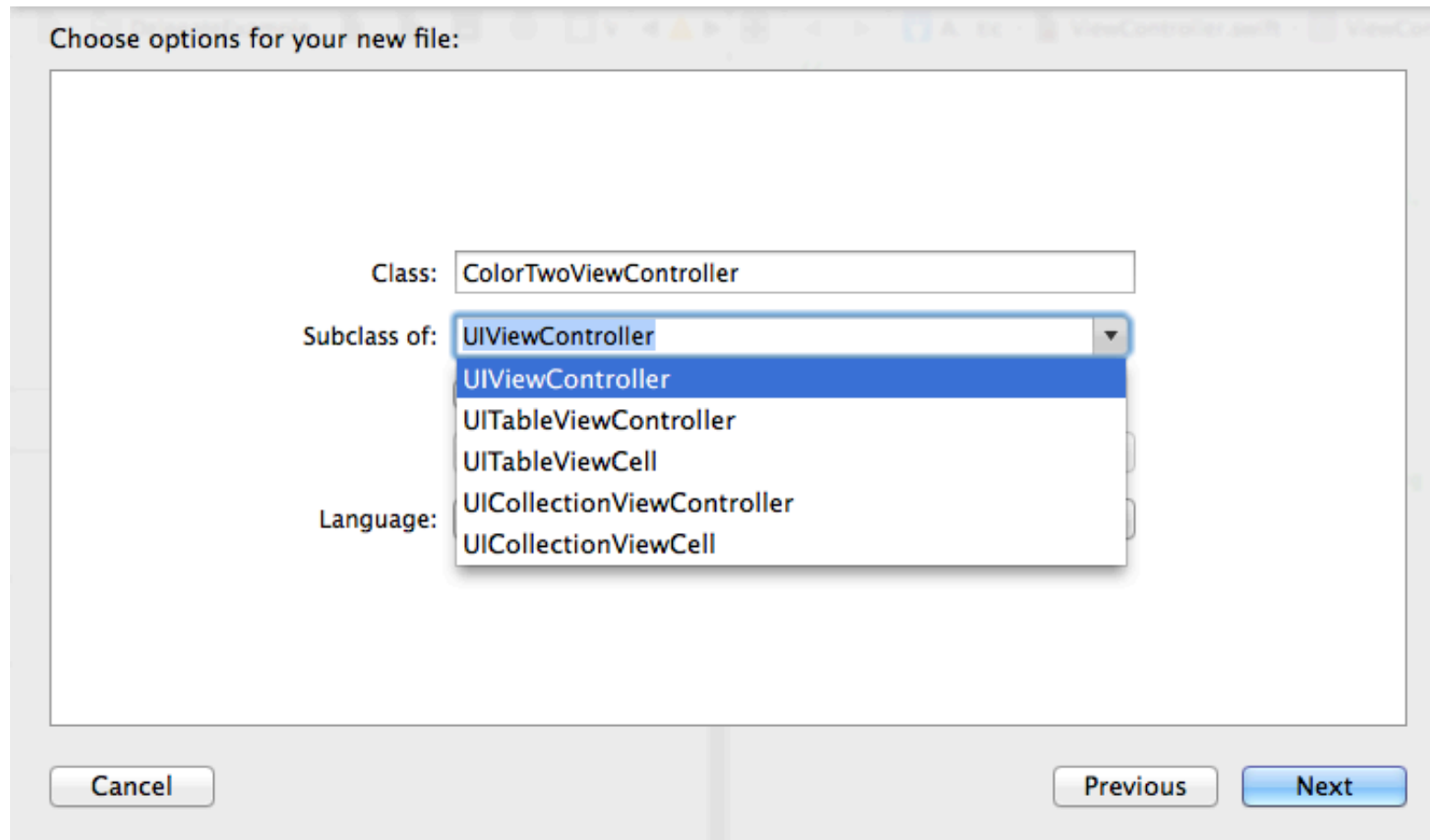
```swift
import UIKit

class ViewController: UIViewController {

    @IBOutlet weak var colorLabel: UILabel!

    override func viewDidLoad() {
        super.viewDidLoad()
        // Do any additional setup after loading the view,
            typically from a nib.
    }

}
```

สร้าง Cocoa Touch Class ที่เป็น subclass ของ UIViewController
จาก File->New->File…

ลบโค้ดให้เหลือแค่ viewDidLoad

```swift
import UIKit

class ColorTwoViewController: UIViewController {

    override func viewDidLoad() {
        super.viewDidLoad()

        // Do any additional setup after loading the view.
    }

    override func didReceiveMemoryWarning() {
        super.didReceiveMemoryWarning()
        // Dispose of any resources that can be recreated.
    }


    /*
    // MARK: - Navigation

    // In a storyboard-based application, you will often
        want to do a little preparation before navigation
    override func prepareForSegue(segue: UIStoryboardSegue!,
        sender: AnyObject!) {
        // Get the new view controller using
            segue.destinationViewController.
        // Pass the selected object to the new view
            controller.
    }
    */

}
```

จะได้

```swift
import UIKit

class ColorTwoViewController: UIViewController {

    override func viewDidLoad() {
        super.viewDidLoad()

        // Do any additional setup after loading the view.
    }

    /*
    // MARK: - Navigation

    // In a storyboard-based application, you will often
        want to do a little preparation before navigation
    override func prepareForSegue(segue: UIStoryboardSegue!,
        sender: AnyObject!) {
        // Get the new view controller using
            segue.destinationViewController.
        // Pass the selected object to the new view
            controller.
    }
    */

}
```
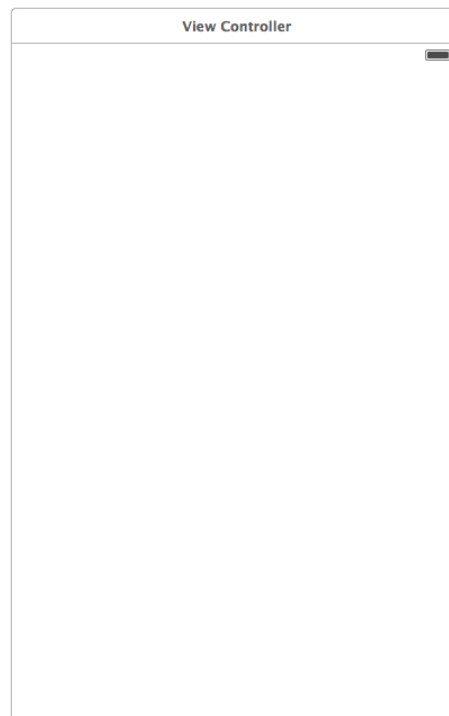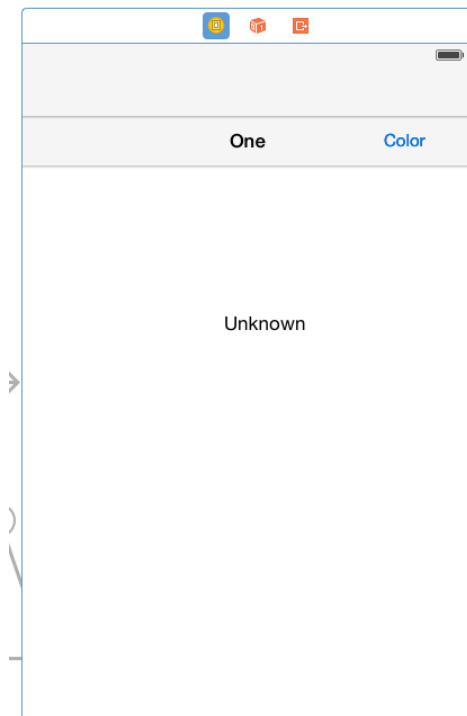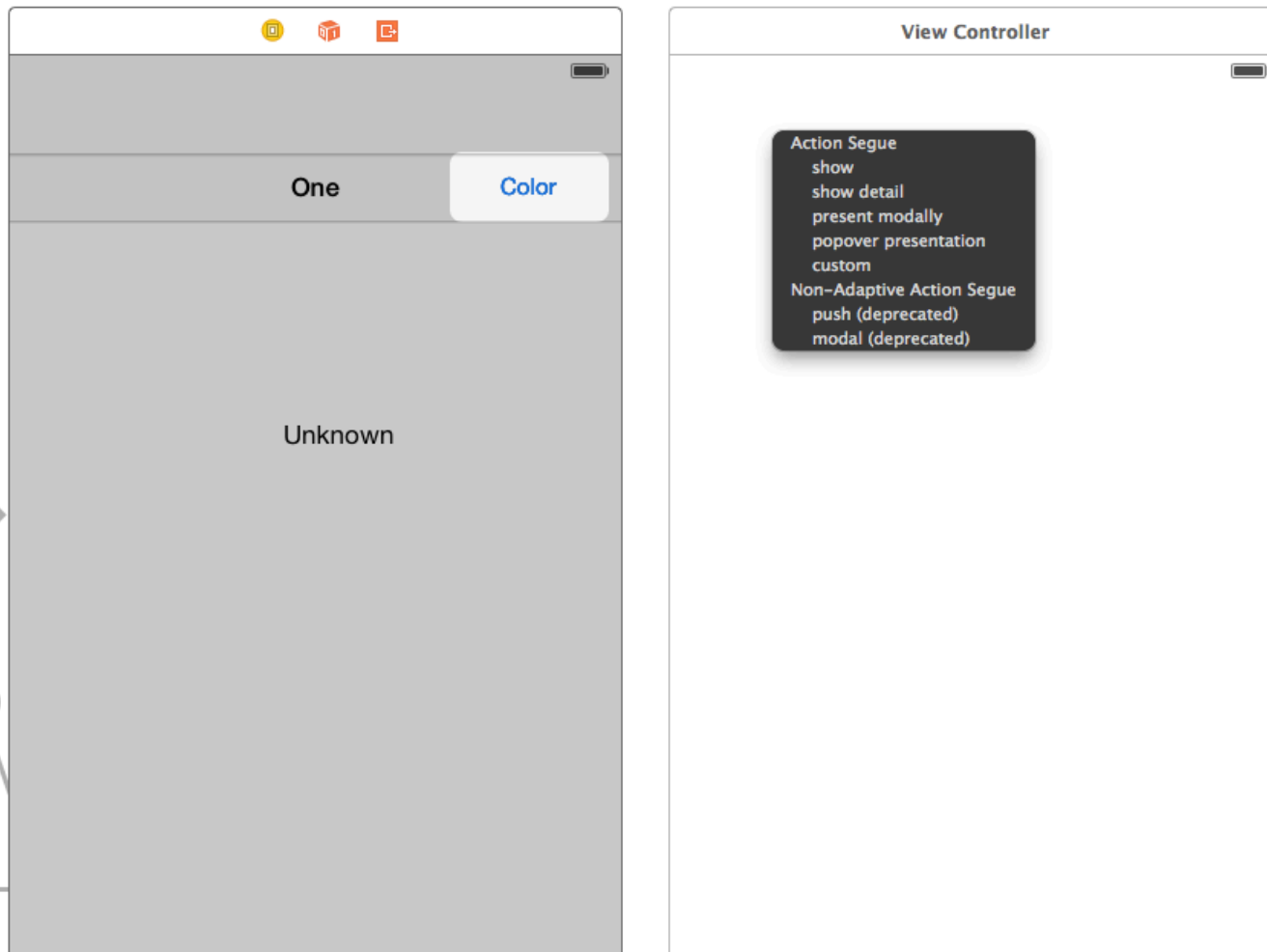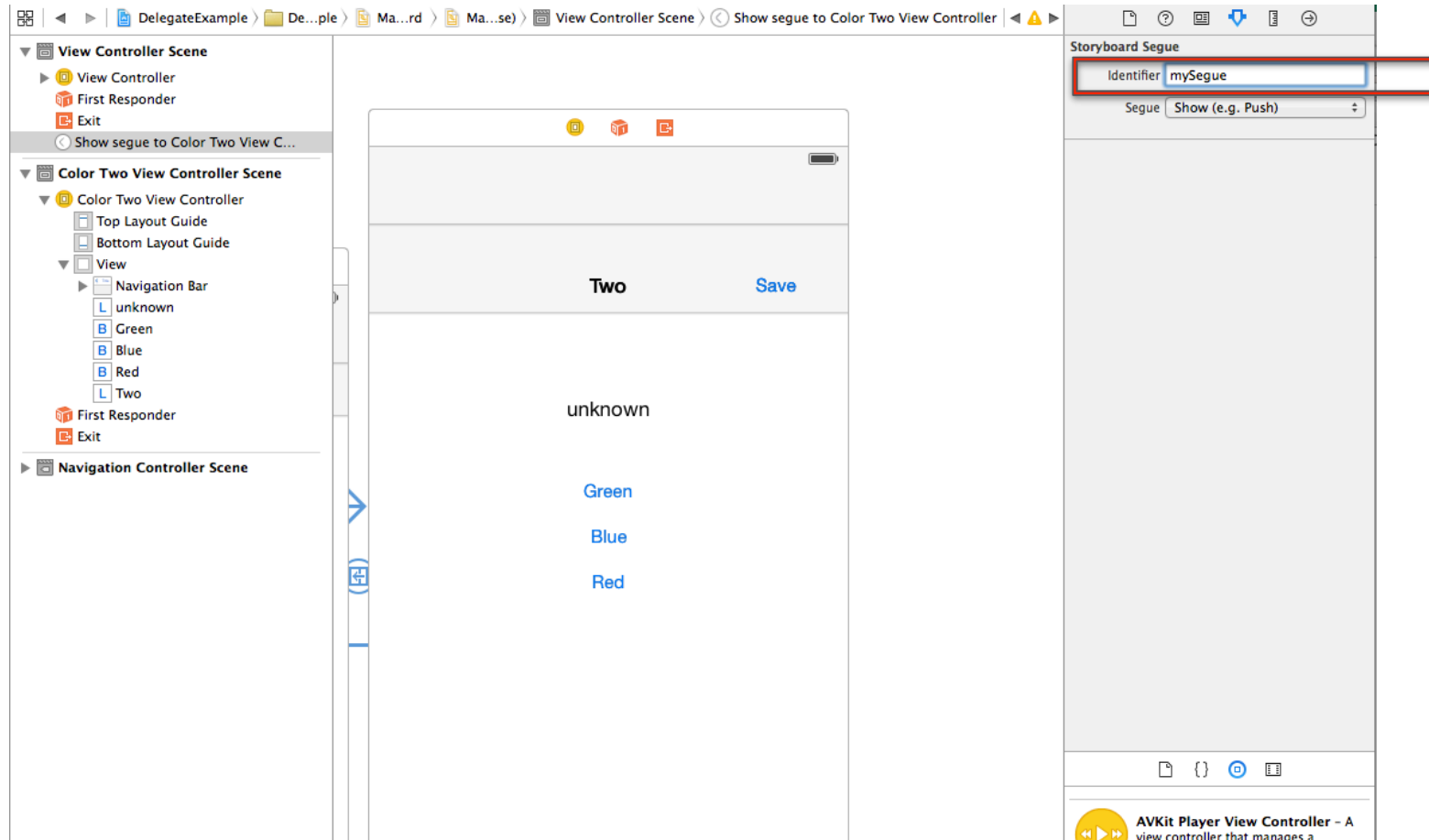
สร้าง New View Controller
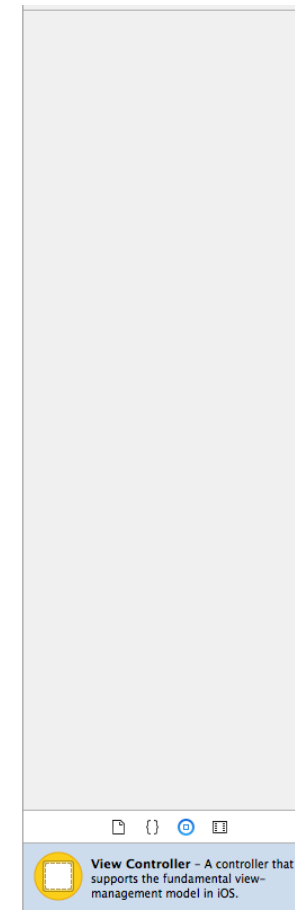
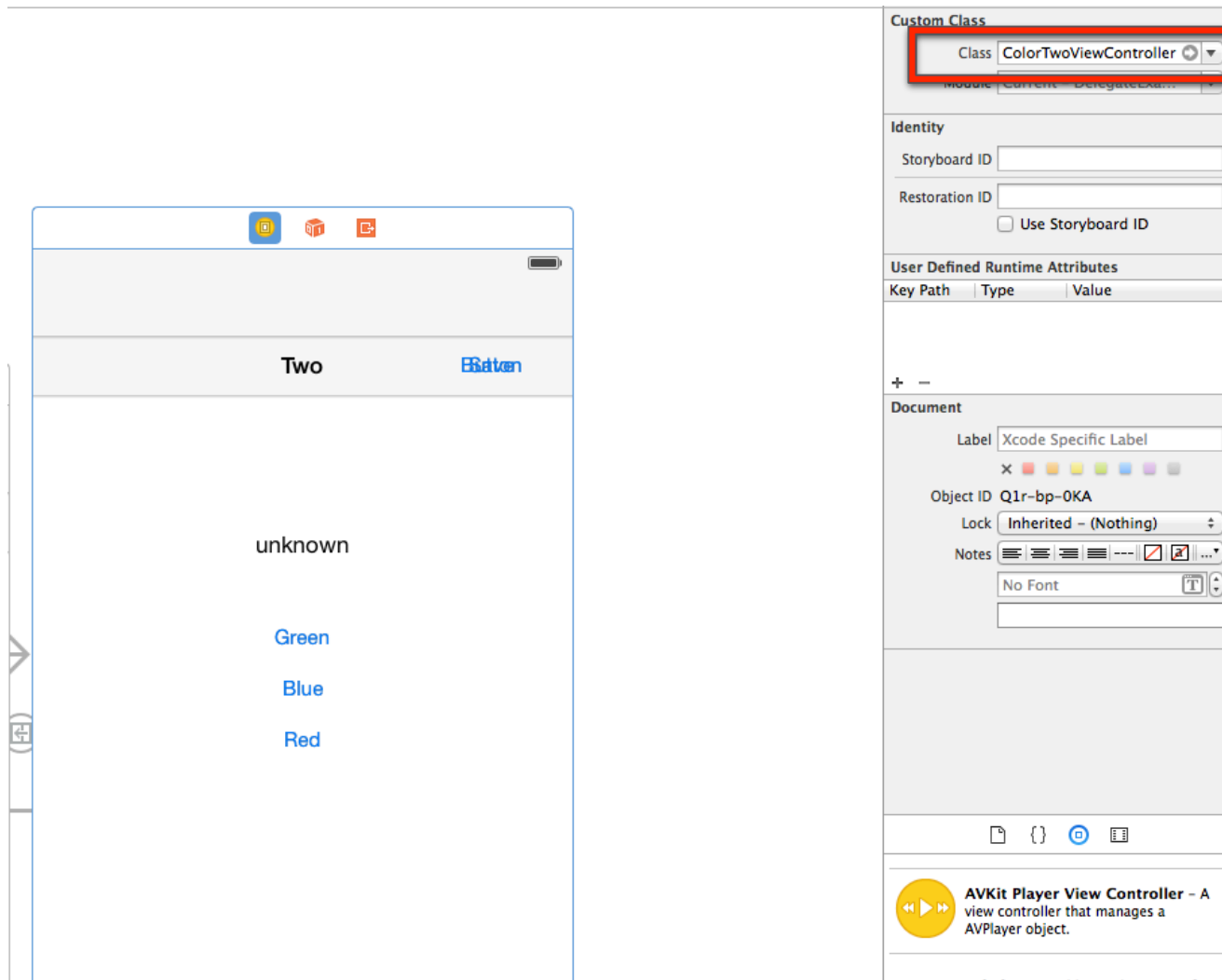# Ctlr-ลากจาก Color Button ไปหา new Controller เพื่อเพิ่ม Segue
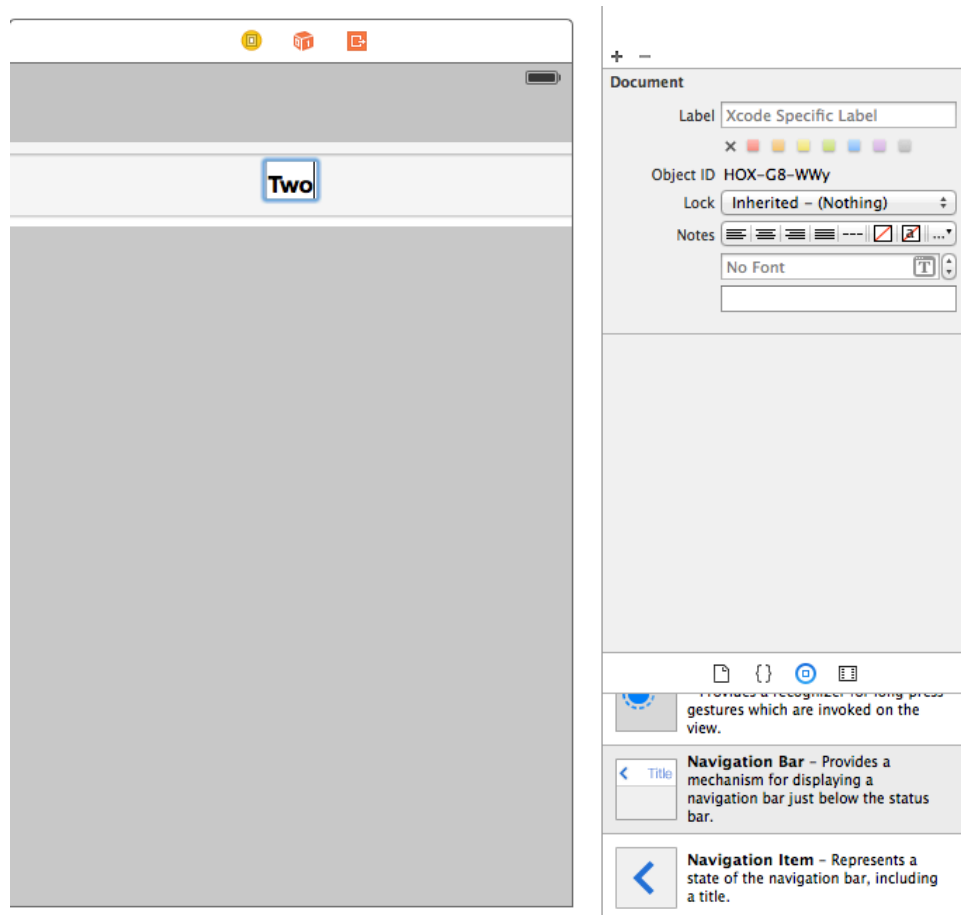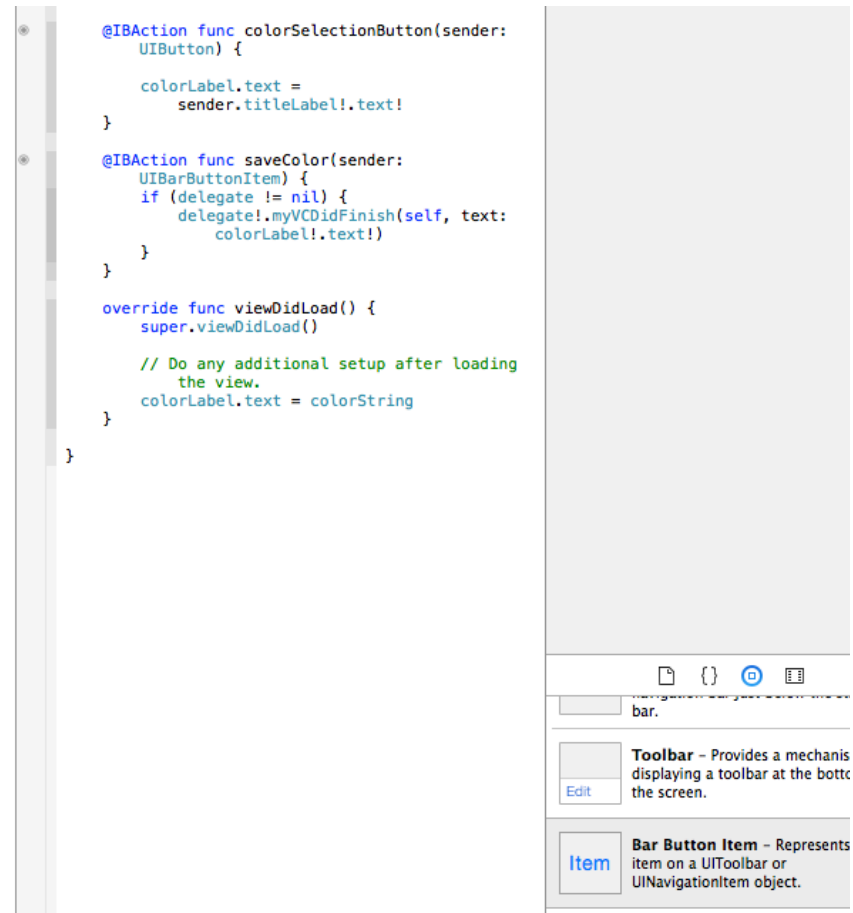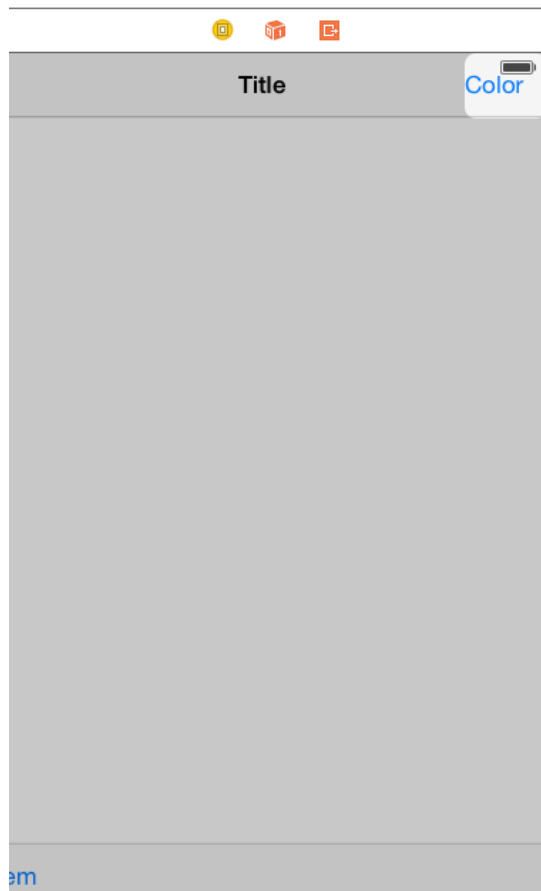
Set identifier เป็น mySegue

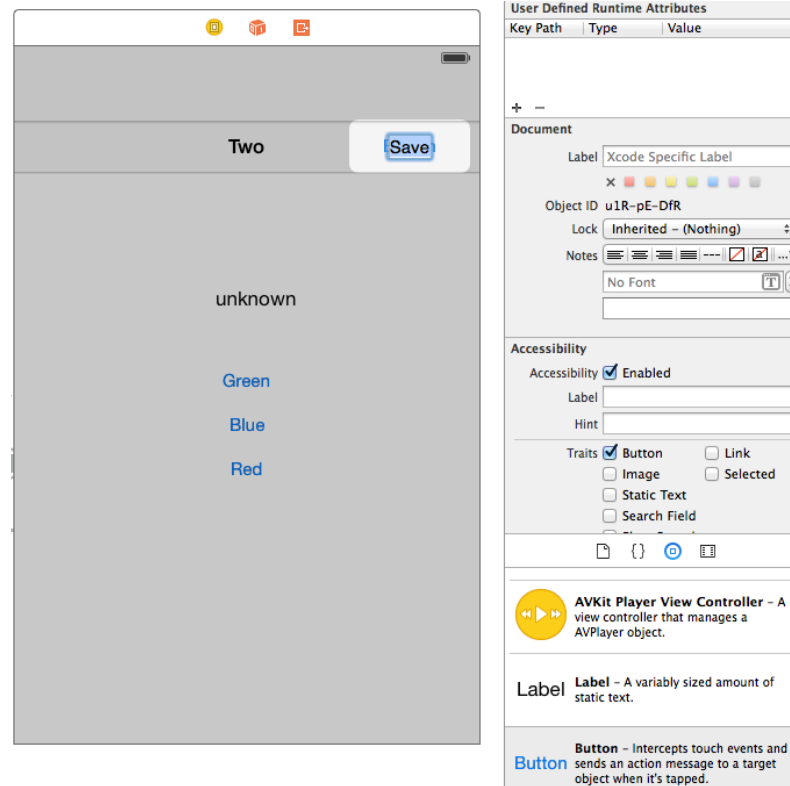# ใน identity inspector set Custom Class ให้เป็น ColorTwoViewController

เพิ่ม Navigation Bar

เพิ่ม Bar Button item ->Save


```swift
@IBAction func colorSelectionButton(sender:
    UIButton) {

    colorLabel.text =
        sender.titleLabel!.text!
}

@IBAction func saveColor(sender:
    UIBarButtonItem) {
    if (delegate != nil) {
        delegate!.myVCDidFinish(self, text:
            colorLabel!.text!)
    }
}

override func viewDidLoad() {
    super.viewDidLoad()

    // Do any additional setup after loading
        the view.
    colorLabel.text = colorString
}

}
```

bar.

Toolbar – Provides a mechanis
displaying a toolbar at the botto
the screen.

Bar Button Item – Represents
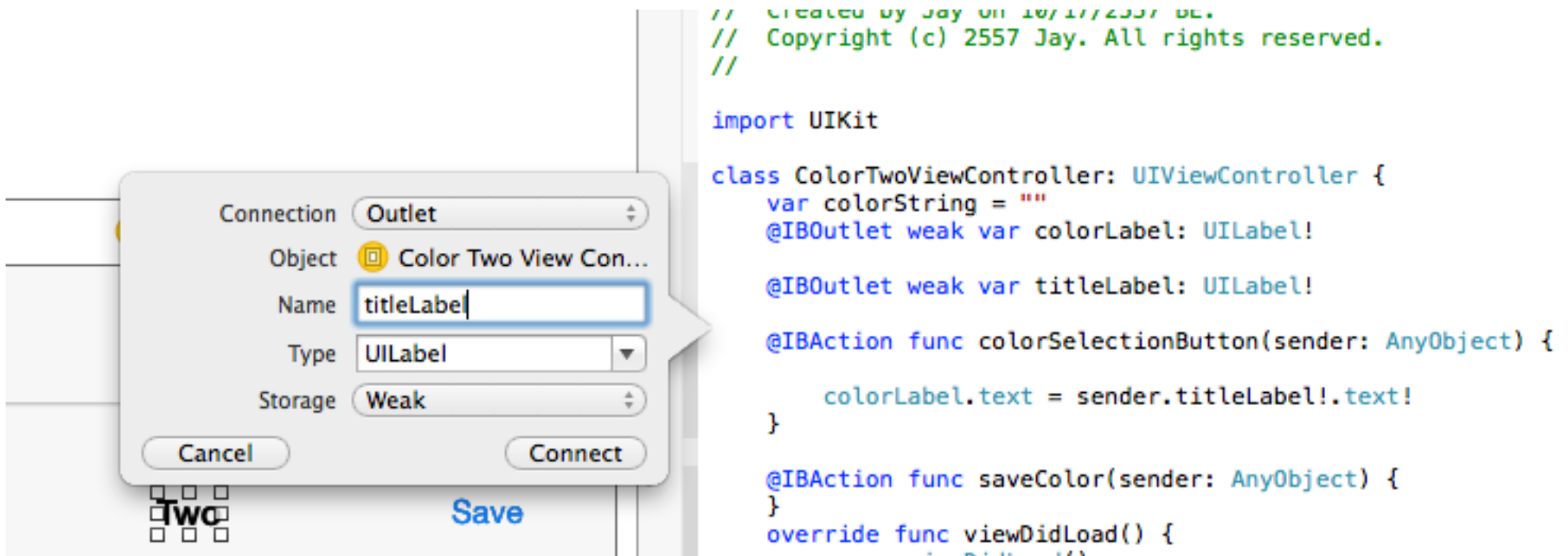item on a UIToolbar or
UINavigationItem object.
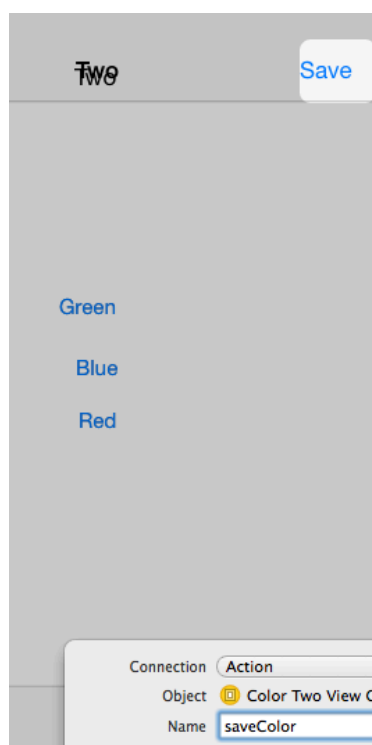
เพิ่ม Label และปุ่ม Red Green Blue ดังรูป

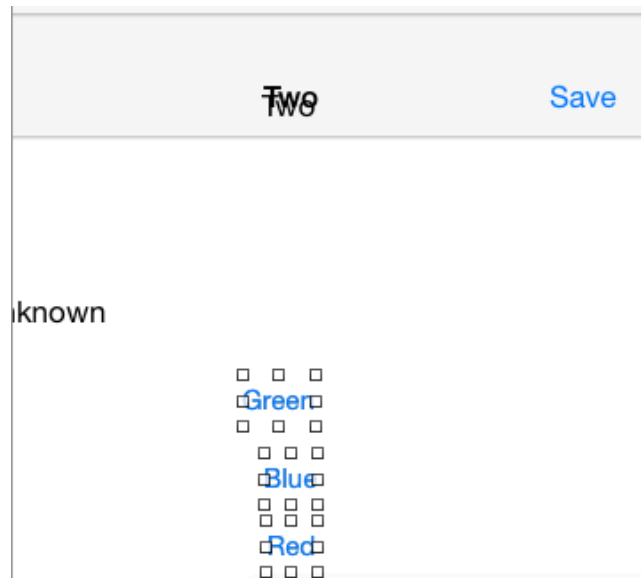# เพิ่ม outlet

- colorLabel
- titleLabel

เพิ่ม Action

- saveColor set Type UIBarButtonItem
- colorSelectionButton เลือก 3 ปุ่ทRed Green Blue พร้อมกัน set Type UIButton

เพิ่มโค้ดใน action และ viewDidLoad

```swift
import UIKit
protocol ColorTwoViewControllerDelegate{
    func myVCDidFinish(controller:ColorTwoViewController,text:String)
}

class ColorTwoViewController: UIViewController {

    var delegate:ColorTwoViewControllerDelegate? = nil

    var colorString = ""

    @IBOutlet weak var colorLabel: UILabel!

    @IBOutlet weak var titleLabel: UILabel!

    @IBAction func colorSelectionButton(sender: UIButton) {
        colorLabel.text = sender.titleLabel!.text!
    }

    @IBAction func saveColor(sender: UIBarButtonItem) {
        if (delegate != nil) {
            delegate!.myVCDidFinish(self, text: colorLabel!.text!)
        }
    }


    override func viewDidLoad() {
        super.viewDidLoad()

        // Do any additional setup after loading the view.
        colorLabel.text = colorString
    }

}
```

เพื่อส่งค่าระหว่าง View เพิ่มโค้ดใน ViewController

```swift
import UIKit


class ViewController: UIViewController,ColorTwoViewControllerDelegate {
    @IBOutlet var colorLabel : UILabel!
    override func viewDidLoad() {
        super.viewDidLoad()
        // Do any additional setup after loading the view, typically from a nib.
    }
    func myVCDidFinish(controller: ColorTwoViewController, text: String) {
        colorLabel.text = "Co: " +  text
        controller.navigationController?.popViewControllerAnimated(true)
    }
    override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject!) {
        if segue.identifier == "mySegue"{
            let vc = segue.destinationViewController as ColorTwoViewController
            vc.colorString = colorLabel.text!
            vc.delegate = self
        }
    }
}
```

เพื่อส่งค่าระหว่าง View เพิ่มโค้ดใน ColorTwoViewController

```swift
import UIKit
protocol ColorTwoViewControllerDelegate{
    func myVCDidFinish(controller:ColorTwoViewController,text:String)
}

class ColorTwoViewController: UIViewController {

    var delegate:ColorTwoViewControllerDelegate? = nil

    var colorString = ""

    @IBOutlet weak var colorLabel: UILabel!

    @IBOutlet weak var titleLabel: UILabel!

    @IBAction func colorSelectionButton(sender: UIButton) {
        colorLabel.text = sender.titleLabel!.text!
    }

    @IBAction func saveColor(sender: UIBarButtonItem) {
        if (delegate != nil) {
            delegate!.myVCDidFinish(self, text: colorLabel!.text!)
        }
    }


    override func viewDidLoad() {
        super.viewDidLoad()

        // Do any additional setup after loading the view.
        colorLabel.text = colorString
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}
```

เพื่อส่งค่าระหว่าง View เพิ่มโค้ดใน ViewController

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import UIKit


class ViewController: UIViewController, ColorTwoViewControllerDelegate {
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    override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject!) {
        if segue.identifier == "mySegue"{
            let vc = segue.destinationViewController as ColorTwoViewController
            vc.colorString = colorLabel.text!
            vc.delegate = self
        }
    }
}
```

References

- http://makeapppie.com/2014/07/01/swift-swift-using-segues-and-delegates-in-navigation-controllers-part-1-the-template/