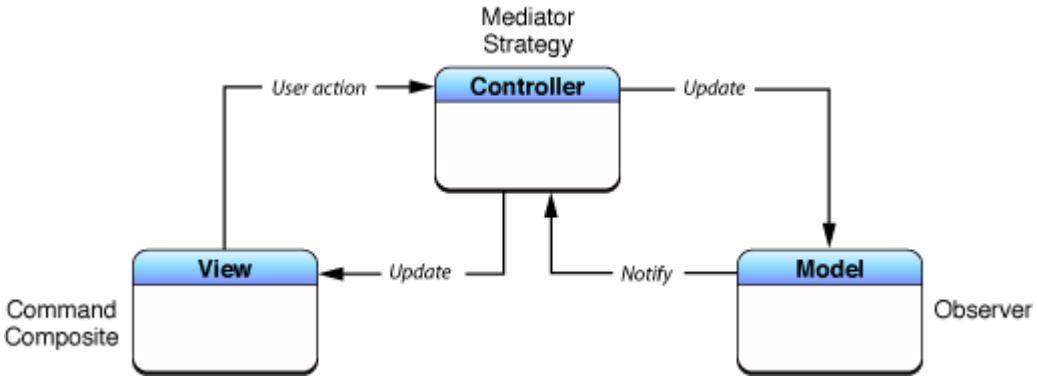
The Role of the Controller

Controllers support your views by responding to user actions and populating the views with content.

In other words . . .

The VC helps create a link
between visual appearance and app data



View Controller

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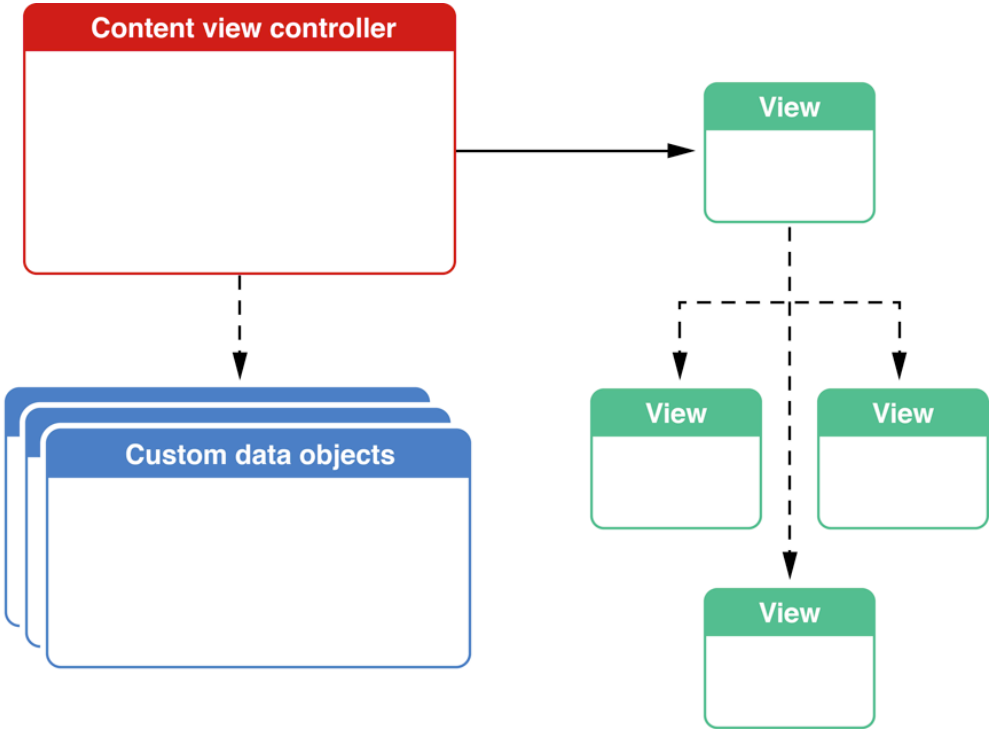
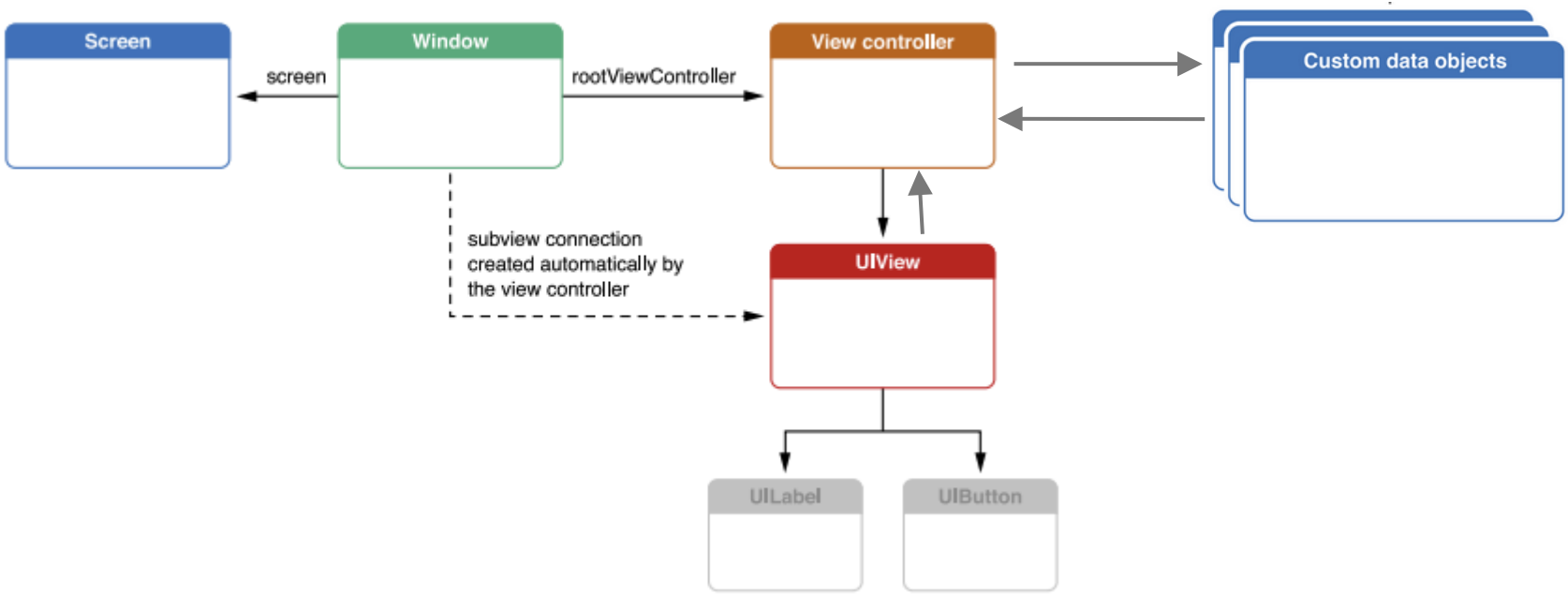
A view controller is the natural place to coordinate actions of its connected views.



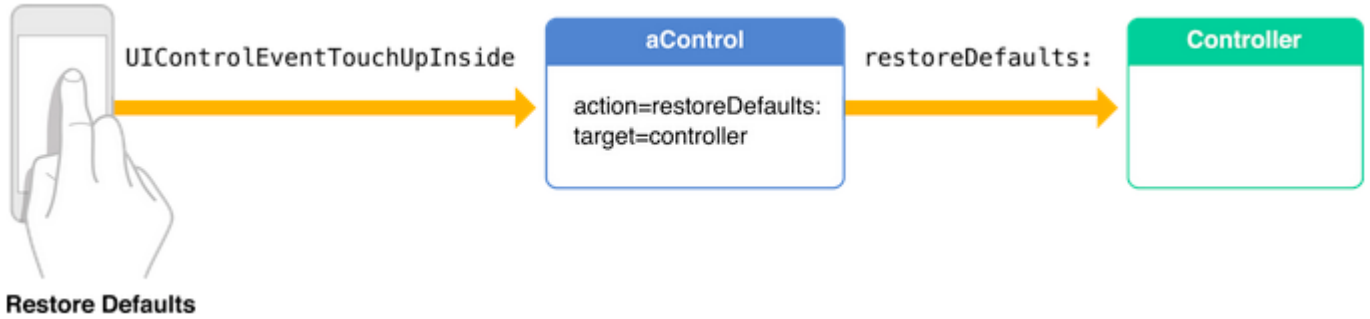
Tying it all together

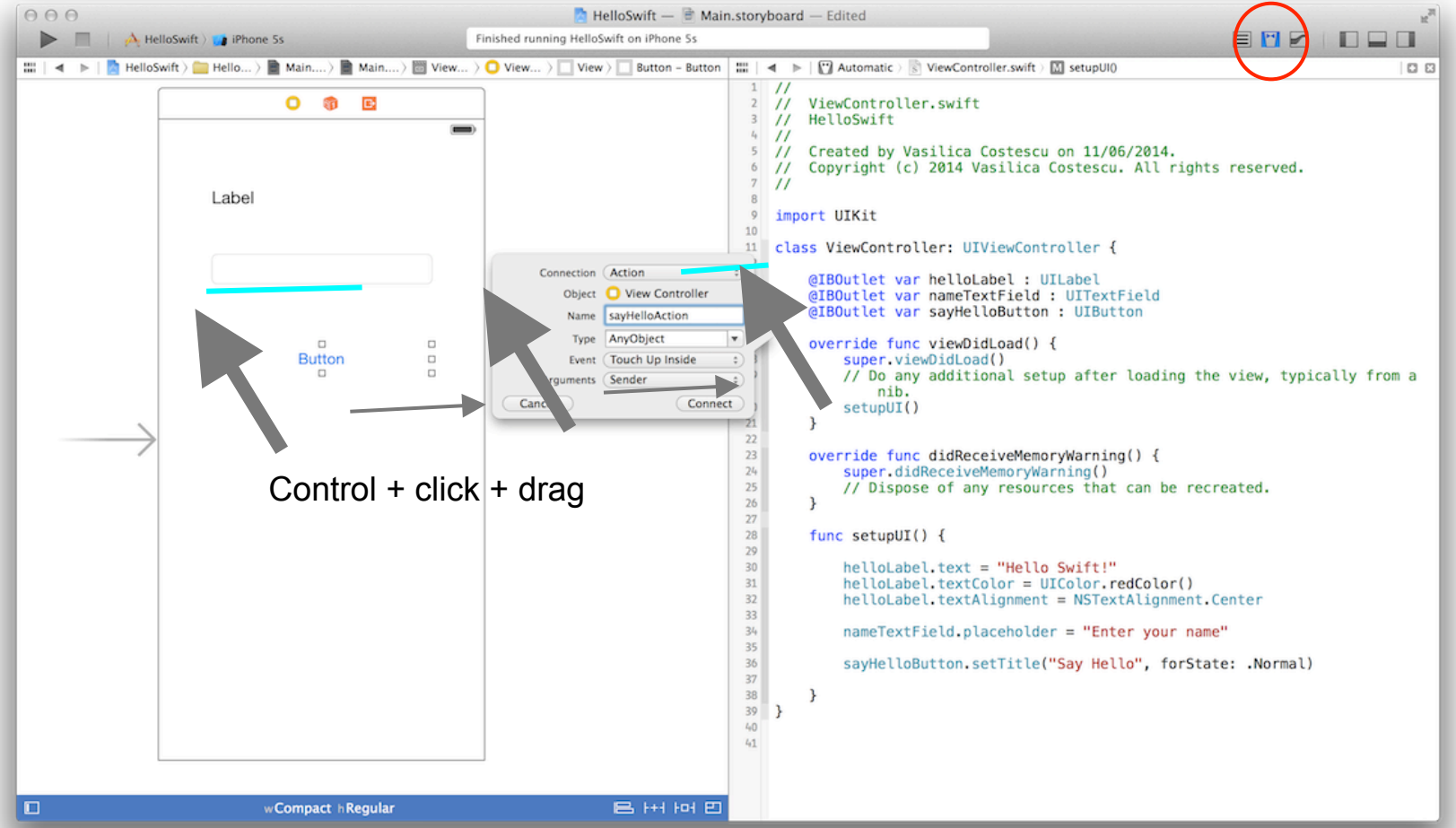
Each view controller organizes and controls a view; this view is often the root view of a view hierarchy.



Connecting View with View Controller

To define interaction in your app, make your view controller files communicate with the views in your storyboard. You do this by defining connections between the UI files and source code files through actions and outlets.




HelloSwift — Main.storyboard — Edited
Finished running HelloSwift on iPhone 5s
Label
Button
Connection Action
Object View Controller
Name sayHelloAction
Type AnyObject
Event Touch Up Inside
Sender
Connect
Control + click + drag
wCompact hRegular
ViewController.swift
setupUI()
//
// ViewController.swift
// HelloSwift
//
// Created by Vasilica Costescu on 11/06/2014.
// Copyright (c) 2014 Vasilica Costescu. All rights reserved.
//
import UIKit
class ViewController: UIViewController {
@IBOutlet var helloLabel : UILabel
@IBOutlet var nameTextField : UITextField
@IBOutlet var sayHelloButton : UIButton
override func viewDidLoad() {
super.viewDidLoad()
// Do any additional setup after loading the view, typically from a nib.
setupUI()
}
override func didReceiveMemoryWarning() {
super.didReceiveMemoryWarning()
// Dispose of any resources that can be recreated.
}
func setupUI() {
helloLabel.text = "Hello Swift!"
helloLabel.textColor = UIColor.redColor()
helloLabel.textAlignment = NSTextAlignment.Center
nameTextField.placeholder = "Enter your name"
sayHelloButton.setTitle("Say Hello", forState: .Normal)
}
}

UI Description Files

- Storyboards
- XIB files

UIViewControllers and XIB files

- XIB or Storyboard files can be linked to ViewControllers

Linking UIViewControllers and XIB files

- loadView
- init (if loadView is not provided)

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Practical aspects of linking UIViewControllers and XIB files

- loadView
- init
- Naming XIB files
- Simulator cleanup
- Setting up correct ViewController in IB

Practical aspects of linking UIViewControllers

- Every UIViewController has a 'view' property

Lifecycle methods of UIViewControllers

- loadView
- init
- viewWillAppear
- viewDidLoad
- viewWillDisappear

Let's see the code now . . .

A quick demo on simulator reset

Assignment

- Create an additional XIB file in your project
- Set up some UI components in the XIB file
- Add the view from this XIB to your ViewController

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