

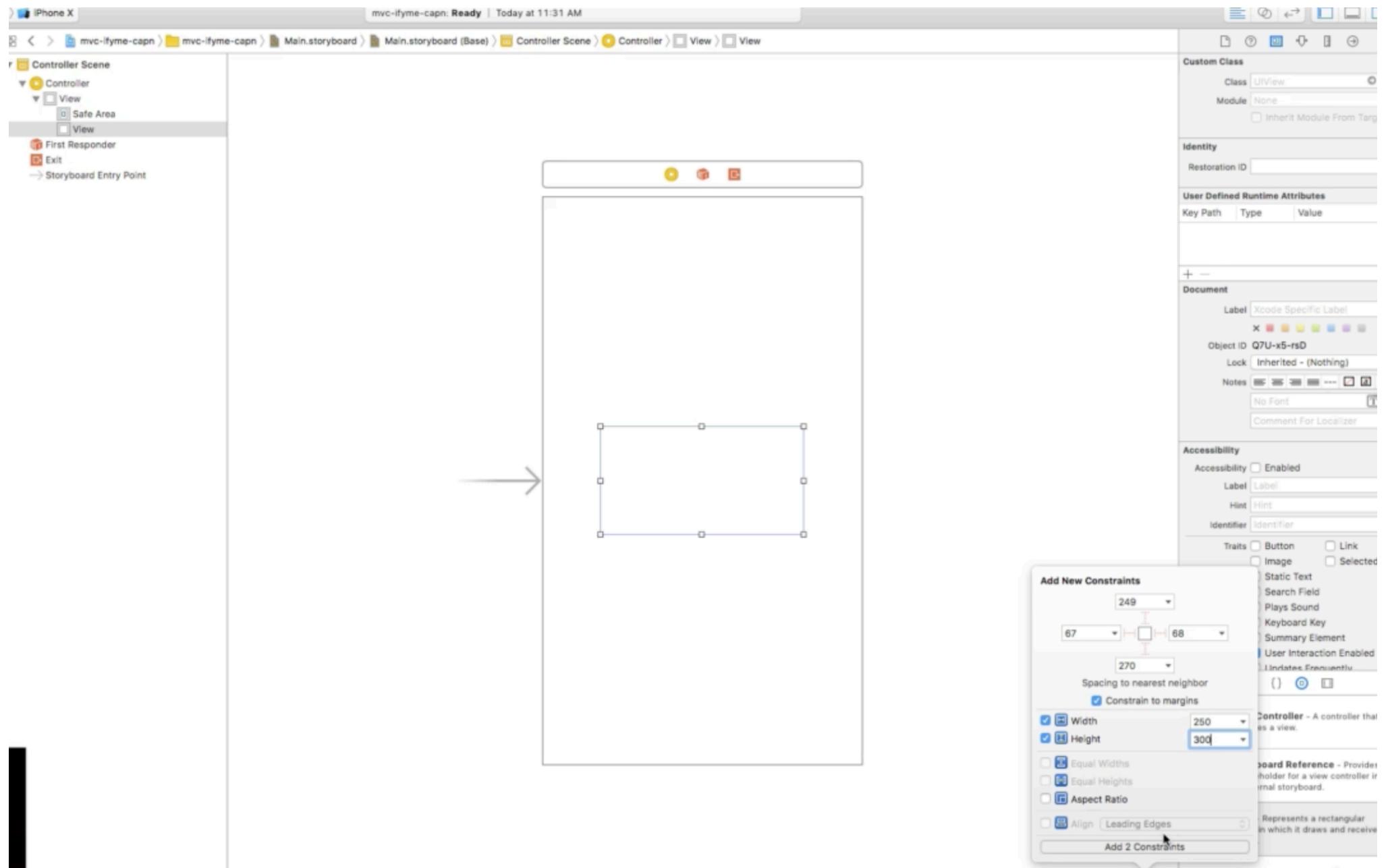


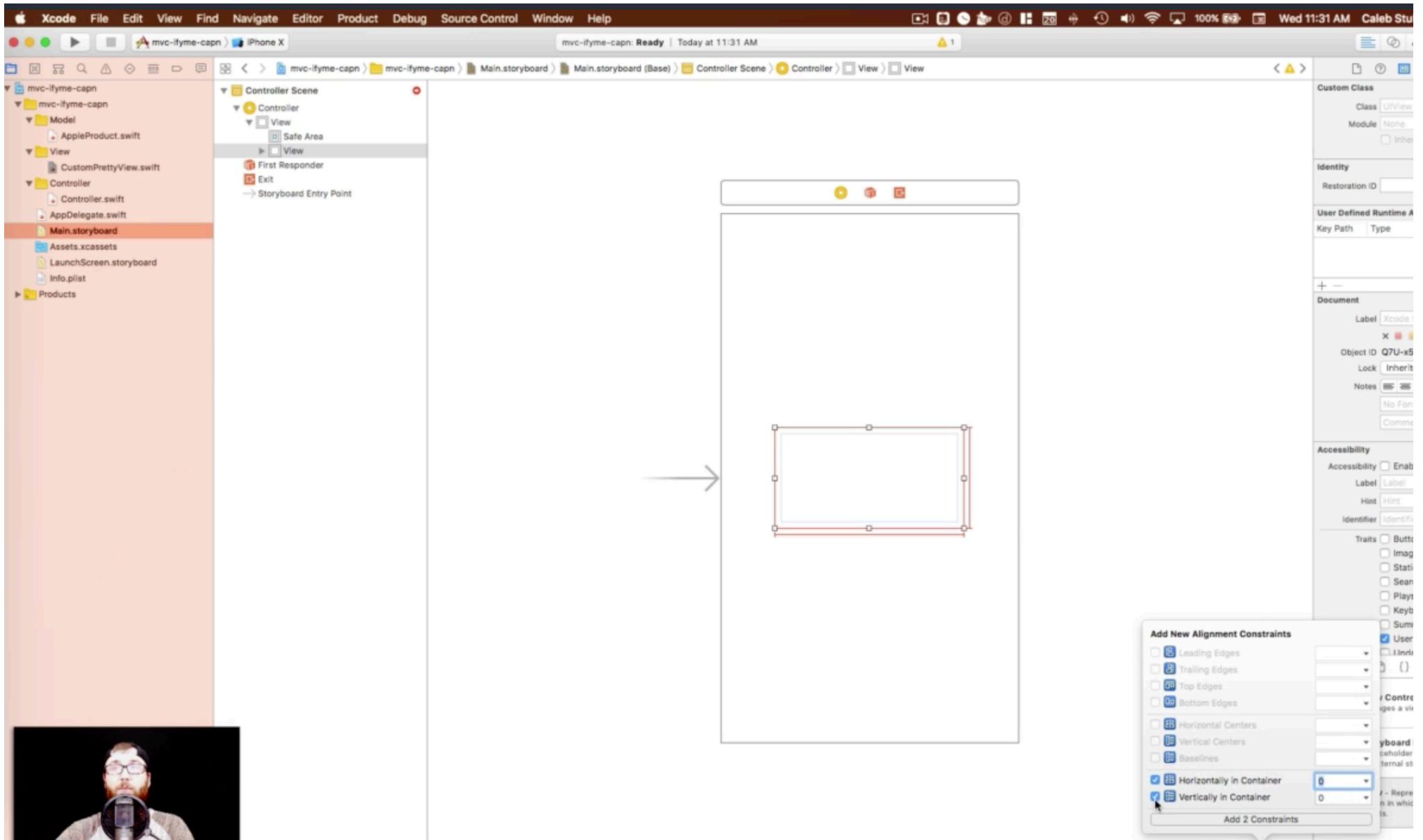
The screenshot shows the Xcode interface with the following details:

- Menu Bar:** Xcode, File, Edit, View, Find, Navigate, Editor, Product, Debug, Source Control, Window, Help.
- Toolbar:** Standard Xcode toolbar items.
- Project Navigator:** Shows the project structure: mvc-ifyme-capn (root), mvc-ifyme-capn (target), Model (group), and AppleProduct.swift (selected).
- Editor:** Displays the code for AppleProduct.swift. The code defines a class AppleProduct with properties name, color, and price, and an init method.

```
1 //  
2 //  AppleProduct.swift  
3 //  mvc-ifyme-capn  
4 //  
5 //  Created by Caleb Stultz on 9/20/17.  
6 //  Copyright © 2017 Caleb Stultz. All rights reserved.  
7 //  
8  
9 import Foundation  
10  
11 class AppleProduct {  
12     var name: String  
13     var color: String  
14     var price: Double  
15  
16     init(name: String, color: String, price: Double) {  
17         self.name = name  
18         self.color = color  
19         self.price = price  
20     }  
21 }  
22
```

- Status Bar:** Shows the project name "mvc-ifyme-capn: Ready", the date "Today at 11:27 AM", and system status icons.





Creating the views

Section 8, Lecture 53

mvc-ifyme-capn: Ready | Today at 11:35 AM

mvc-ifyme-capn
└ mvc-ifyme-capn
 └ Model
 AppleProduct.swift
 └ View
 CustomPrettyView.swift
 └ Controller
 Controller.swift
 AppDelegate.swift
 Main.storyboard
 Assets.xcassets
 LaunchScreen.storyboard
 Info.plist
 └ Products

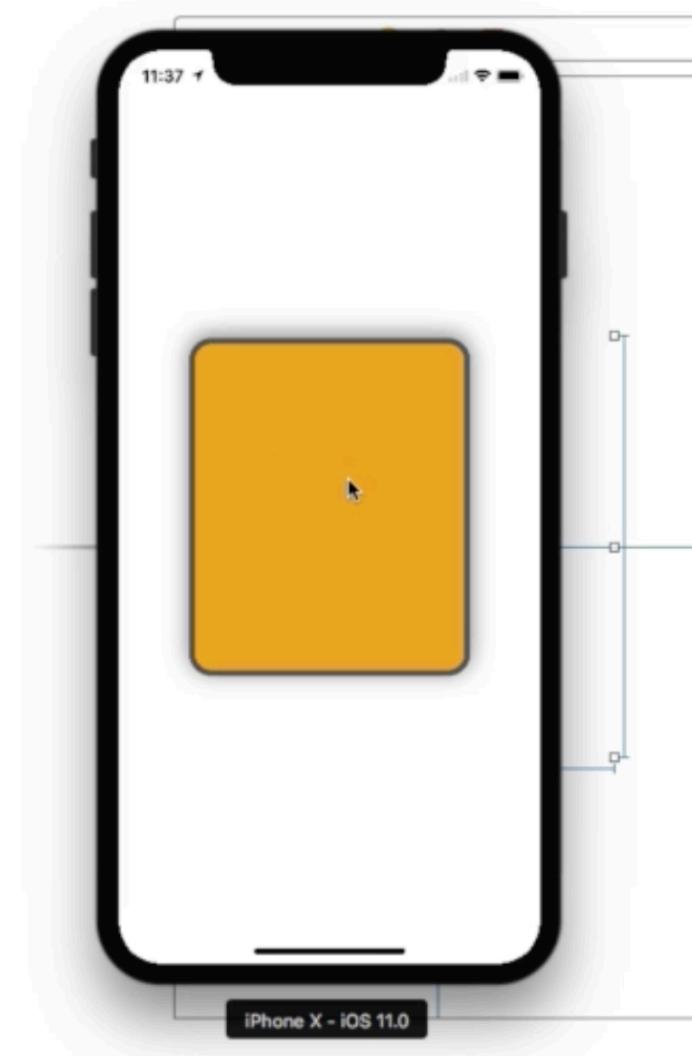
```
1 //  
2 //  CustomPrettyView.swift  
3 //  mvc-ifyme-capn  
4 //  
5 //  Created by Caleb Stultz on 9/20/17.  
6 //  Copyright © 2017 Caleb Stultz. All rights reserved.  
7 //  
8  
9 import UIKit  
10  
11 class CustomPrettyView: UIView {  
12     override func awakeFromNib() {  
13         layer.cornerRadius = 20  
14         layer.shadowColor = [ ]  
15         layer.shadowRadius = 10  
16         layer.shadowOpacity = 0.75  
17         backgroundColor = [ ]  
18         layer.borderColor = [ ]  
19         layer.borderWidth = 5  
20     }  
21 }  
22
```

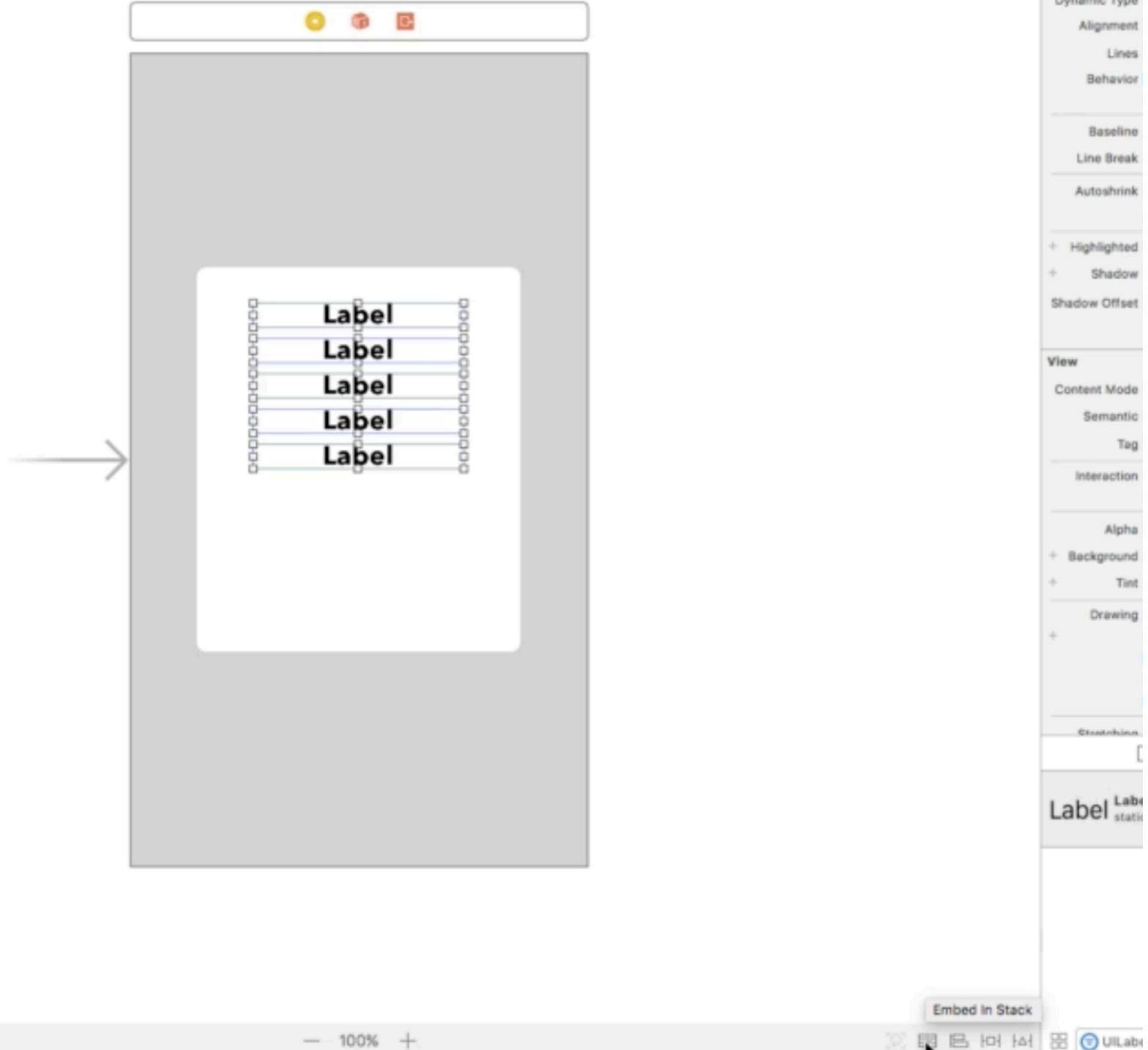
Creating the views

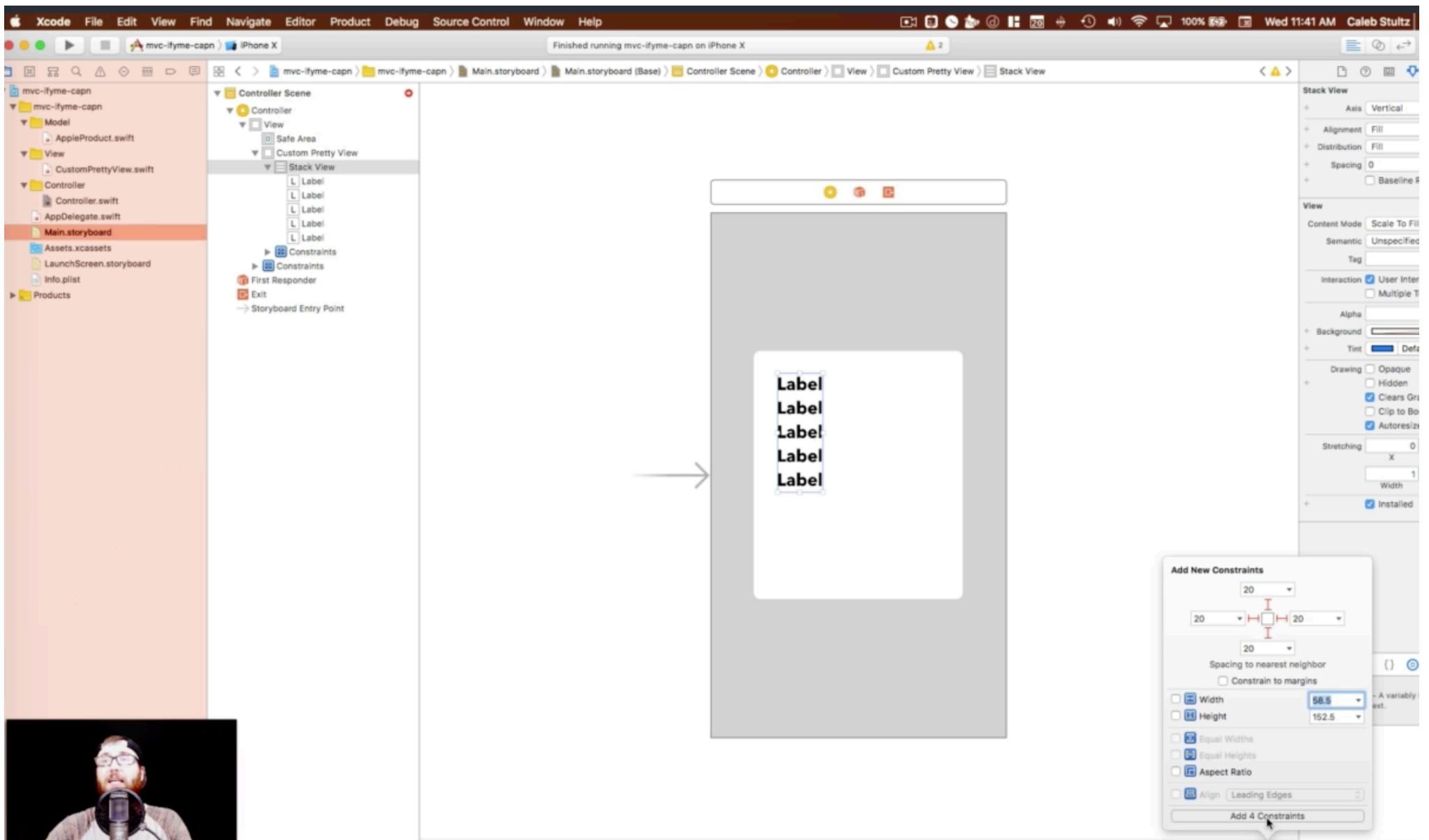
Section 8, Lecture 53

vc-ifyme-capn
mvc-ifyme-capn
Model
AppleProduct.swift
View
CustomPrettyView.swift
Controller
Controller.swift
AppDelegate.swift
Main.storyboard
Assets.xcassets
LaunchScreen.storyboard
Info.plist
Products

Controller Scene
Controller
View
Safe Area
Custom Pretty View
Constraints
Constraints
First Responder
Exit
Storyboard Entry Point







```
1 //  
2 // Controller.swift  
3 // mvc-ifyme-capn  
4 //  
5 // Created by Caleb Stultz on 9/20/17.  
6 // Copyright © 2017 Caleb Stultz. All rights reserved.  
7 //  
8  
9 import UIKit  
10  
11 class Controller: UIViewController {  
12  
    @IBOutlet weak var iphoneNameLabel: UILabel!  
    @IBOutlet weak var iphoneColorLabel: UILabel!  
    @IBOutlet weak var iphonePriceLabel: UILabel!  
16  
17     override func viewDidLoad() {  
18         super.viewDidLoad()  
19         let appleProduct = AppleProduct(name: "iPhone X", color: "Space Gray", price: 999.99)  
20  
21         iphoneNameLabel.text = appleProduct.name  
22         iphoneColorLabel.text = "in \(appleProduct.color)"  
23         iphonePriceLabel.text = "$\(appleProduct.price)"  
24     }  
25 }  
26
```

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```
1 //  
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9 import UIKit  
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18         super.viewDidLoad()  
19         let appleProduct = AppleProduct(name: "iPhone X",  
20                                           color: "Space Gray",  
21                                           price: 999.99)  
22  
23         iphoneNameLabel.text = appleProduct.name  
24         iphoneColorLabel.text = "in \(appleProduct.color)"  
25         iphonePriceLabel.text = "$\(appleProduct.price)"  
26     }  
27 }
```



pace Gray", price: 999.99)

iPhone X - iOS 11.0

Securing the model layer

Section 8, Lecture 55

```
1 //  
2 // AppleProduct.swift  
3 // mvc-ifyme-capn  
4 //  
5 // Created by Caleb Stultz on 9/20/17.  
6 // Copyright © 2017 Caleb Stultz. All rights reserved.  
7 //  
8  
9 import Foundation  
10  
11 class AppleProduct {  
12     public private(set) var name: String  
13     public private(set) var color: String  
14     public private(set) var price: Double  
15  
16     init(name: String, color: String, price: Double) {  
17         self.name = name  
18         self.color = color  
19         self.price = price  
20     }  
21 }  
22
```