

Section 6 Lecture 40

window-shopper

↳ window-shopper

↳ Views

↳ CurrencyTxtField.swift

↳ Controller

↳ MainVC.swift

↳ AppDelegate.swift

↳ Main.storyboard

↳ Assets.xcassets

↳ LaunchScreen.storyboard

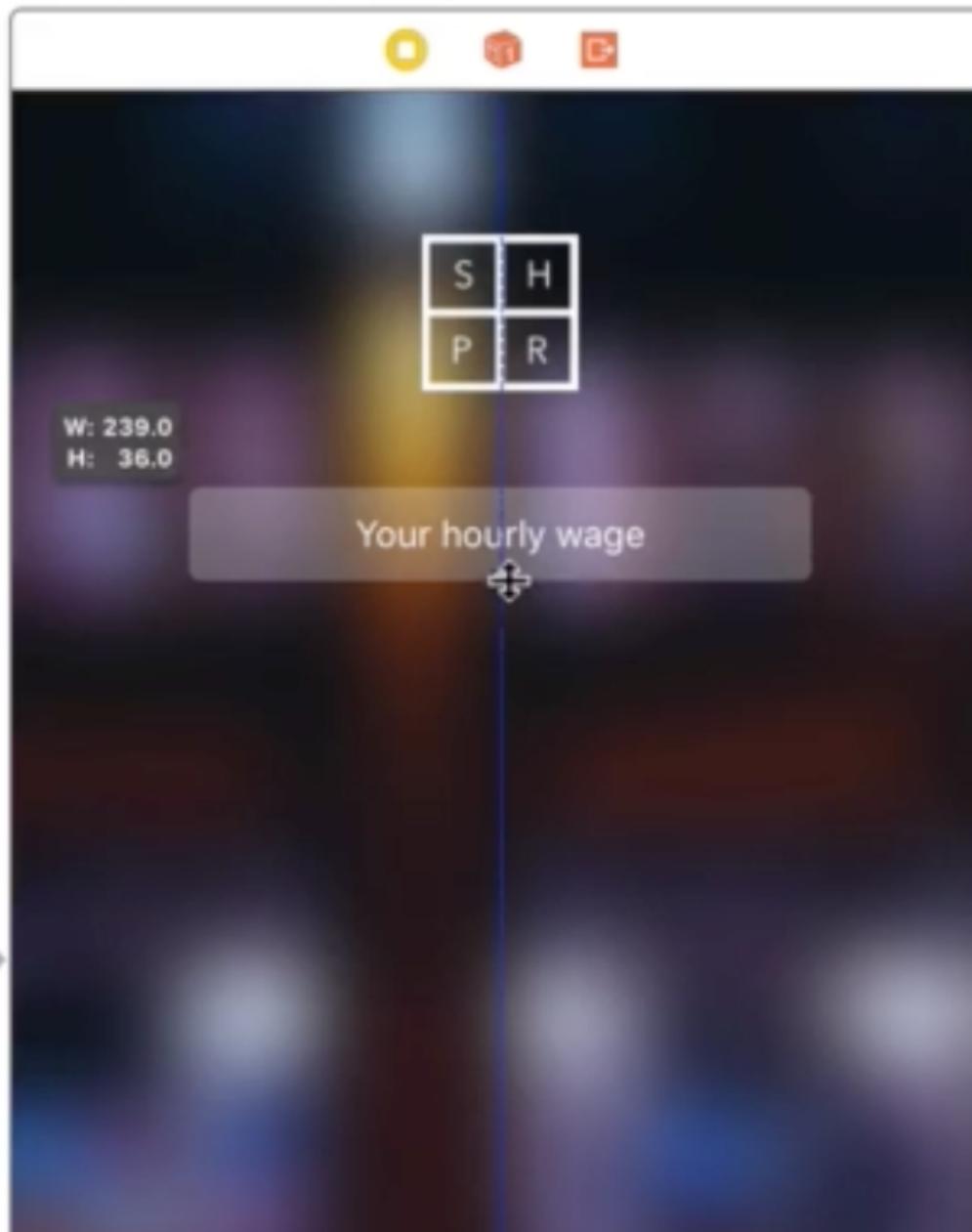
↳ Info.plist

↳ Products

```
8
9 import UIKit
10
11 @IBDesignable
12 class CurrencyTxtField: UITextField {
13
14     override func prepareForInterfaceBuilder() {
15         customizeView()
16     }
17
18     override func awakeFromNib() {
19         super.awakeFromNib()
20         customizeView()
21     }
22
23     func customizeView() {
24         backgroundColor = □
25         layer.cornerRadius = 5.0
26         textAlign = .center
27
28
29     if let p = placeholder {
30         let place = NSAttributedString(string: p, attributes:
31             [.foregroundColor: □])
32         attributedPlaceholder = place
33         textColor = □
34     }
35
36 }
37
```



**Now code
works in IB**



Input accessory view and IBDesignable

Section 6, Lecture 40

Xcode File Edit View Find Navigate Editor Product Debug Source Control Window Help

Running window-shopper on iPhone 7

Text Field

Text Plain

Color Default

Font System 14.0

Dynamic Type Automatically A

Alignment

Placeholder Your hourly wage

Background Background Image

Disabled Disabled Backgrou

Border Style

Clear Button Never appears

Min Font Size

Adjust to Fit

Text Input Traits

Content Type Unspecified

Add New Constraints

35

20 479

Constrain to margins

Width 239

Height 40

Equal Widths

Equal Heights

Aspect Ratio

Align Leading Edges

Add 4 Constraints

View as: iPhone 7 (wC hR) 100% 1x Continue

Transcript Browse Q&A Add Bookmark

window-shopper

MainVC Scene

MainVC

Top Layout Guide

Bottom Layout Guide

View

windowShopperBG

windowShopperIcon

Your hourly wage

Constraints

First Responder

Exit

Storyboard Entry Point

CurrencyTxtField.swift

MainVC.swift

AppDelegate.swift

Main.storyboard

Assets.xcassets

LaunchScreen.storyboard

Info.plist

Products

S H
P R

Your hourly wage

1x 03:08 / 15:06

Input accessory view and IBDesignable

Section 6, Lecture 40

Xcode File Edit View Find Navigate Editor Product Debug Source Control Window Help

running window-shopper on iPhone 7

5

MainVC Scene

MainVC

- Top Layout Guide
- Bottom Layout Guide
- View
 - windowShopperBG
 - windowShopperIcon
 - F Your hourly wage
 - F Your hourly wage
 - Constraints

First Responder

Exit

Storyboard Entry Point

Text Field

Text Plain

Text

Color Default

Font System 14.0

Dynamic Type Automatically Adjusted

Alignment Center

Placeholder Your hourly wage

Background Background Image

Disabled Disabled Background

Border Style

Clear Button Never appears

Clear when editing

Min Font Size

Adjust to Fit

Text Input Traits

Content Type Unspecified

Add New Constraints

25

20 414 Spacing to nearest neighbor

Constrain to margins

Width 303

Height 40

Equal Widths

Equal Heights

Aspect Ratio

Align Leading Edges

Add 1 Constraint

View as: iPhone 7 (wC hR) 100% 1x 03:38 / 15:06 Filter Transcript Browse Q&A Add Bookmark Continue

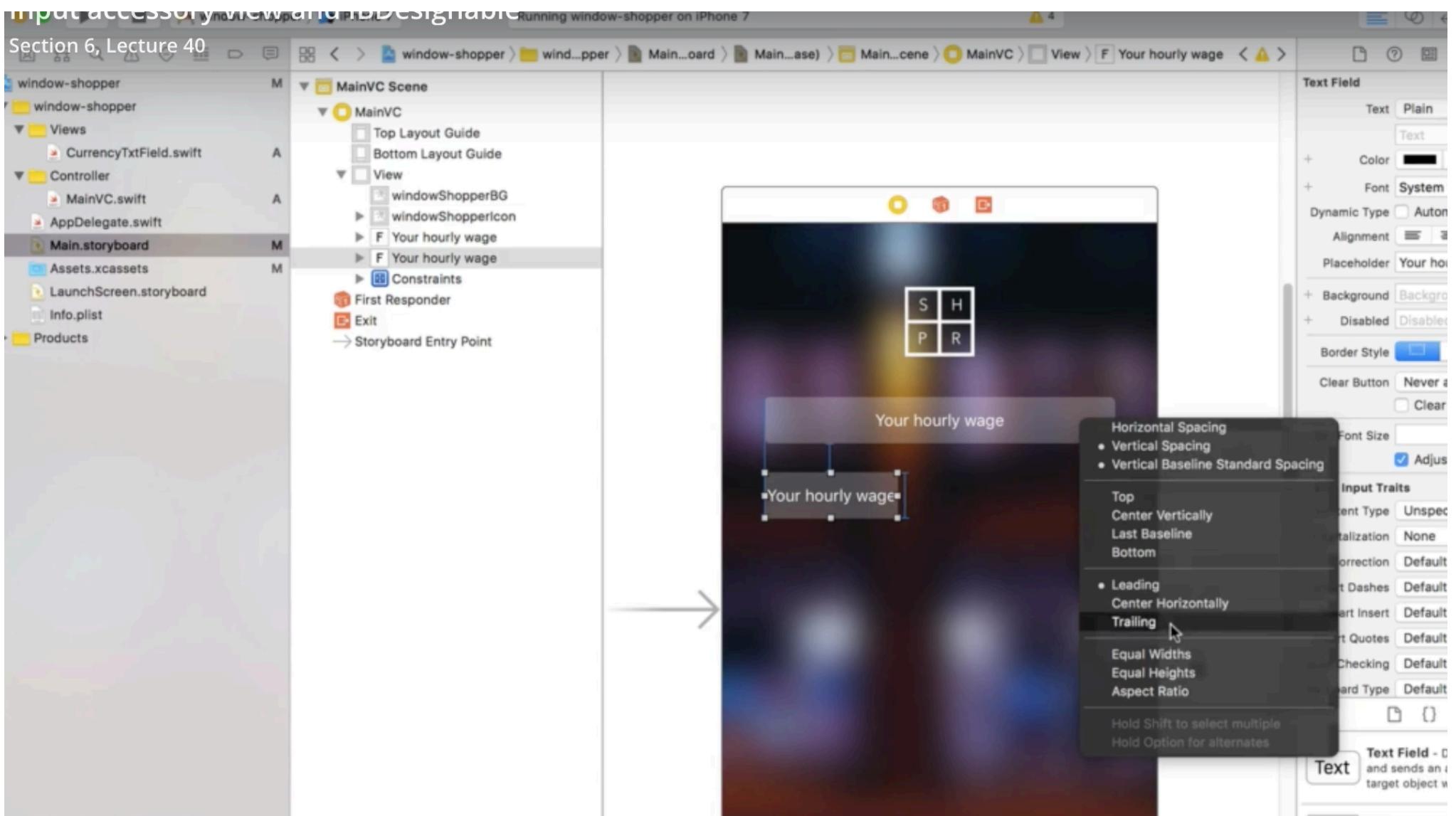
The screenshot shows the Xcode interface with the storyboard editor open. A text field labeled "Your hourly wage" is selected in the storyboard. A popover titled "Add New Constraints" is displayed, allowing the user to set constraints for the text field's width (303), height (40), and spacing to the nearest neighbor (20). The storyboard preview shows the text field on a dark background with a placeholder and a red selection border. The Xcode toolbar at the top includes icons for running, stopping, and pausing the app. The bottom of the screen features a video player showing a man speaking, with a progress bar indicating the video is at 03:38 of 15:06.

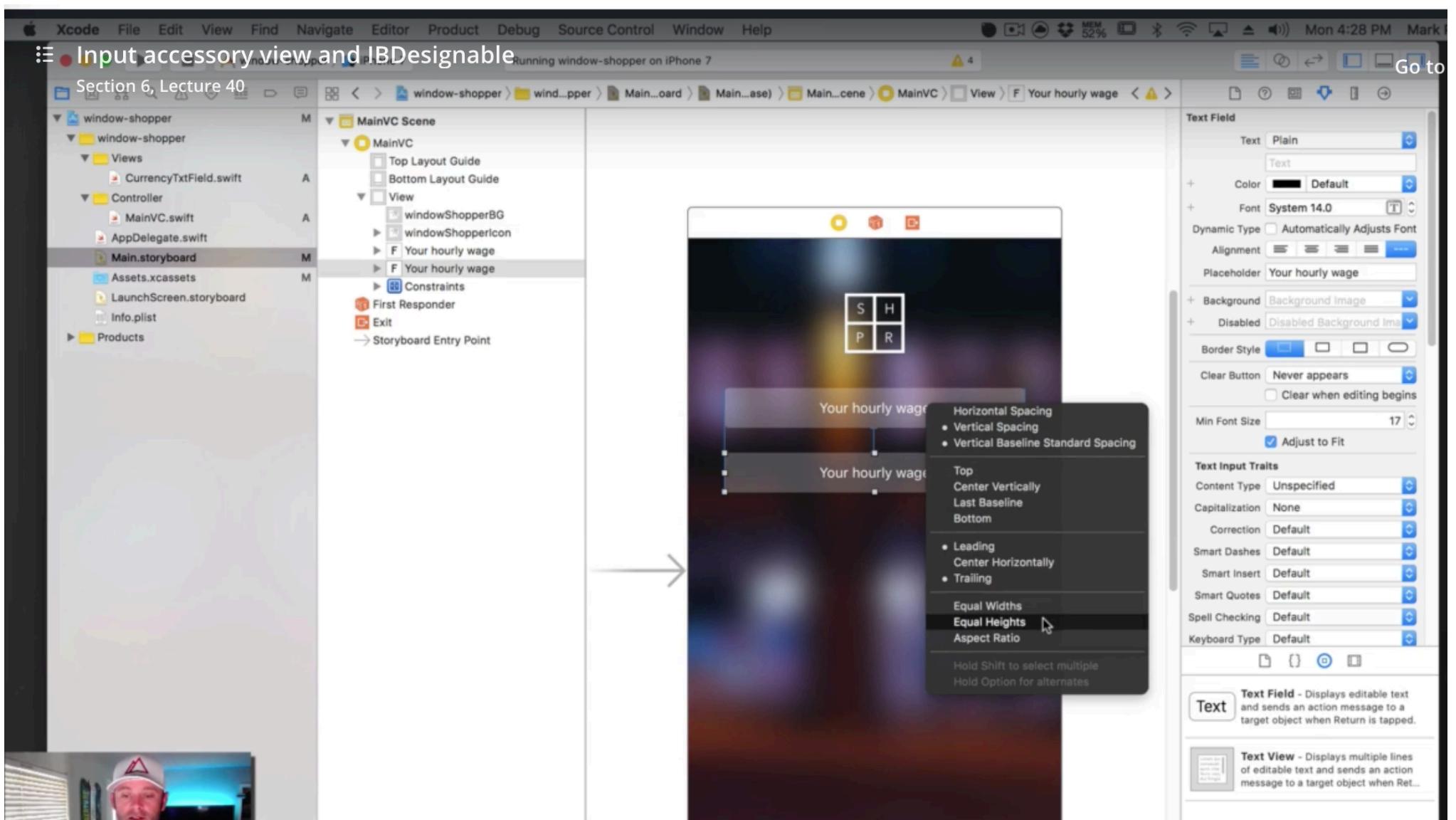
Input accessory view and IBDesignable

Section 6, Lecture 40

The screenshot shows the Xcode interface with the following details:

- Project Navigator:** Shows the project structure with files like `CurrencyTxtField.swift`, `MainVC.swift`, and `Main.storyboard`.
- Document Outline:** Shows the MainVC Scene hierarchy, including `MainVC`, `Top Layout Guide`, `Bottom Layout Guide`, `View`, `windowShopperBG`, `windowShopperIcon`, and two `Your hourly wage` text fields.
- Preview View:** Displays a dark-themed iPhone 7 simulator screen with a 2x2 grid of letters (S, H, P, R) and a modal input accessory view.
- Accessory View Contextual Menu:** A menu is open over the second text field in the accessory view, containing options like "Vertical Spacing", "Vertical Baseline Standard Spacing", "Leading", "Center Horizontally", "Trailing", "Equal Widths", "Equal Heights", and "Aspect Ratio".
- Text Field Inspector:** On the right, the "Text Field" tab is selected, showing settings for Text (Plain), Color (black), Font (System), Alignment (center), Placeholder ("Your h..."), and Border Style (blue).
- Text Input Traits:** Shows traits for Content Type (Unspecified), Capitalization (None), Correction (Default), Smart Dashes (Default), Smart Insert (Default), Smart Quotes (Default), Spell Checking (Default), and Keyboard Type (Default).





Input accessory view and IBDesignable

Section 6, Lecture 40

Running window-shopper on iPhone 7

MainVC Scene

Views

- Top Layout Guide
- Bottom Layout Guide
- View
 - windowShopperBG
 - windowShopperIcon
 - F Your hourly wage
 - F Item price
 - Constraints

First Responder

Exit

Storyboard Entry Point

Dynamic Type: Automatically Adjusts Font

Alignment: Center

Placeholder: Item price

Background: Background Image

Disabled: Disabled Background Image

Border Style: Blue

Clear Button: Never appears

Min Font Size: 17

Adjust to Fit

Text Input Traits

- Content Type: Unspecified
- Capitalization: None
- Correction: Default
- Smart Dashes: Default
- Smart Insert: Default
- Smart Quotes: Default
- Spell Checking: Default

Keyboard Types

- Default
- ASCII Capable
- Numbers and Punctuation
- URL
- Number Pad
- Phone Pad
- Name Phone Pad
- E-mail Address
- Decimal Pad
- Twitter
- Web Search
- Text
- Text View - Displays multiple lines of editable text and sends an action message to a target object when Return is tapped.

Text View - Displays multiple lines of editable text and sends an action message to a target object when Return is tapped.

The screenshot shows the Xcode interface with the storyboard editor open. On the left is the file navigator, and the center is the storyboard canvas. In the storyboard, there is a dark background with two text fields: 'Your hourly wage' and 'Item price'. The 'Item price' field has a blue border and a small blue dot at its bottom right corner, indicating it is selected. To the right is the 'Attributes Inspector' pane. An arrow points from the storyboard towards the 'Keyboard Types' section in the Attributes Inspector. This section lists various input types, with 'Decimal Pad' highlighted in blue. A green arrow also points to this highlighted item. Other listed types include Default, ASCII Capable, Numbers and Punctuation, URL, Number Pad, Phone Pad, Name Phone Pad, E-mail Address, Twitter, and Web Search. At the bottom of the list, 'Text' is shown in a box, and 'Text View' is described as 'Displays multiple lines of editable text and sends an action message to a target object when Return is tapped.'

Input accessory view and IBDesignable

Section 6, Lecture 40

running window-shopper on iPhone 7

MainVC Scene

MainVC

- Top Layout Guide
- Bottom Layout Guide
- View
 - windowShopperBG
 - windowShopperIcon
 - Your hourly wage
 - Item price
 - Constraints

First Responder

Exit

Storyboard Entry Point

Dynamic Type: Automatically Adjusts Font

Alignment: Top Left

Placeholder: Item price

Background: Background Image

Disabled: Disabled Background Image

Border Style: None

Clear Button: Never appears

Min Font Size: 17

Adjust to Fit: checked

Text Input Traits

- Content Type: Unspecified
- Capitalization: None
- Correction: Default
- Smart Dashes: Default
- Smart Insert: Default
- Smart Quotes: Default
- Spell Checking: Default
- Keyboard Type: Decimal Pad
- Keyboard Look: Default
- Return Key: Default

Auto-enable Return Key: checked

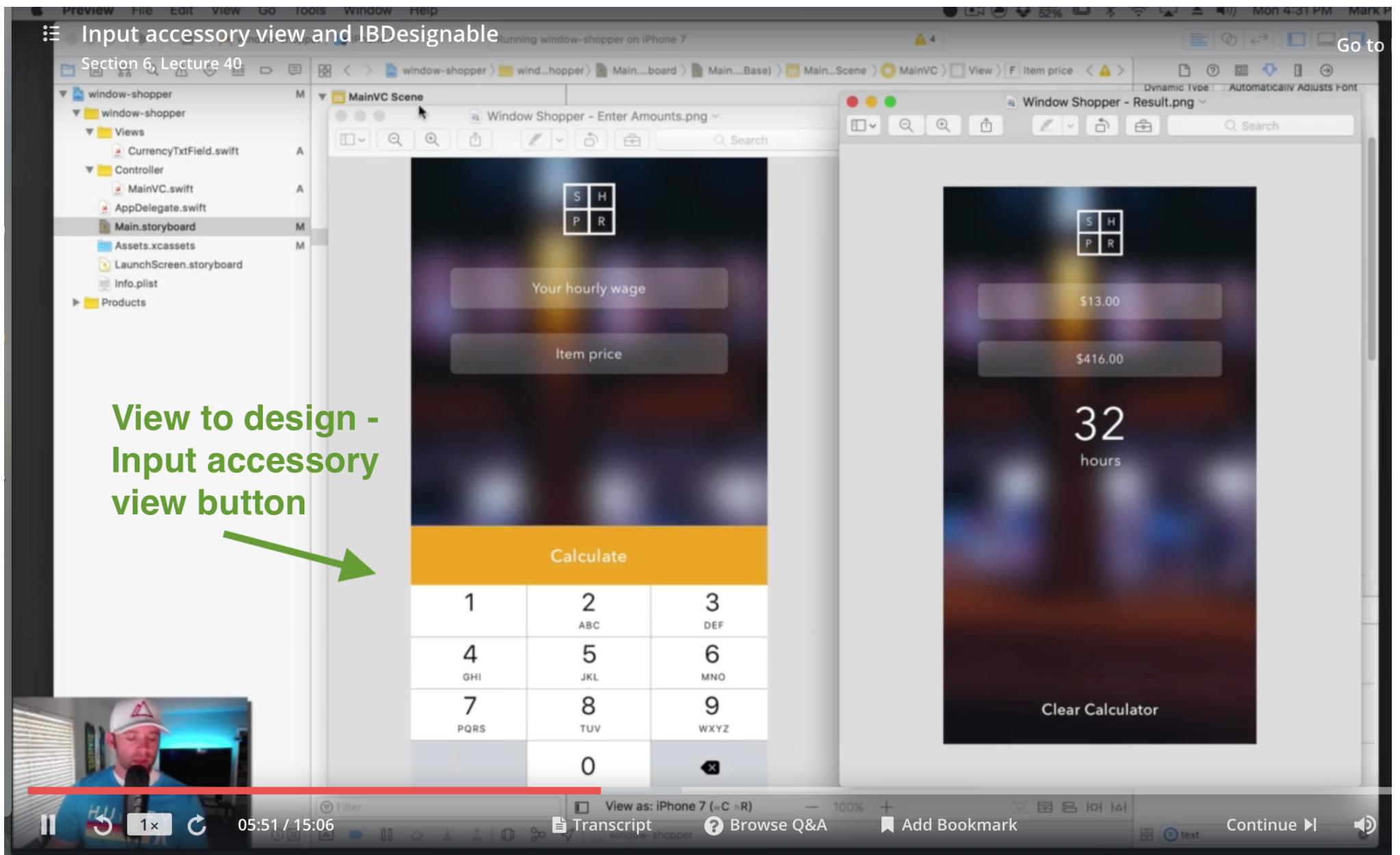
Secure Text Entry: unchecked

Control

Text Field - Displays editable text and sends an action message to a target object when Return is tapped.

Text View - Displays multiple lines of editable text and sends an action message to a target object when Ret...

The screenshot shows the Xcode interface with the storyboard open. On the left is the file navigator, showing files like CurrencyTxtField.swift, MainVC.swift, and Main.storyboard. The storyboard preview in the center shows a dark screen with two text fields labeled "Your hourly wage" and "Item price". Above these fields is a small grid of four squares labeled S, H, P, and R. The Attributes Inspector on the right is focused on the "Item price" text field, displaying its properties. A green arrow points to the "Auto-enable Return Key" checkbox in the Text Input Traits section, which is checked. The status bar at the top indicates it's running on an iPhone 7 with 53% battery, and the date is Monday 4:30 PM.



Xcode File Edit View Find Navigate Editor Product Debug Source Control Window Help

Running window-shopper on iPhone 7

Section 6, Lecture 40

MainVC Scene

MainVC

Top Layout Guide

Bottom Layout Guide

View

windowShopperBG

windowShopperIcon

Wage Txt

Item price

First Responder

Exit

Storyboard Entry Point

Input accessory view and IBDesignable

Go to Data

Item price

S H
P R

Your hourly wage

Item price

Connection: Outlet

Object: MainVC

Name: priceTxt

Type: CurrencyTextField

Storage: Weak

Cancel Connect

Text Plain

Color Default

Font System 14.0

Dynamic Type Automatically Adjusts Font

Alignment

Placeholder Item price

Background Background Image

Disabled Disabled Background Image

Border Style

Clear Button Never appears

Min Font Size 17

Adjust to Fit

Text Input Traits

Content Type Unspecified

Capitalization None

Correction Default

Smart Dashes Default

Smart Insert Default

Smart Quotes Default

Spell Checking Default

Keyboard Type Decimal Pad

Measurement Units Default

Text Field - Displays editable text and sends an action message to a target object when Return is tapped.

Text View - Displays multiple lines of editable text and sends an action message to a target object when Ret...

```
1 //  
2 // ViewController.swift  
3 // window-shopper  
4 //  
5 // Created by Mark Price on  
6 // 6/19/17.  
7 // Copyright © 2017 Devslopes. All  
8 // rights reserved.  
9  
10  
11 class MainVC: UIViewController {  
    @IBOutlet weak var wageTxt:  
        CurrencyTextField!  
    override func viewDidLoad() {  
        super.viewDidLoad()  
    }  
    override func  
        didReceiveMemoryWarning() {  
        super.didReceiveMemoryWarning()  
        // Dispose of any resources  
        // that can be re-created.  
    }  
}
```

Input accessory view and IBDesignable

Section 6, Lecture 40

```
4 //  
5 // Created by Mark Price on 6/19/17.  
6 // Copyright © 2017 Devslopes. All rights reserved.  
7 //  
8  
9 import UIKit  
10  
11 class MainVC: UIViewController {  
12  
    @IBOutlet weak var wageTxt: CurrencyTextField!  
    @IBOutlet weak var priceTxt: CurrencyTextField!  
15  
16  
17     override func viewDidLoad() {  
18         super.viewDidLoad()  
19  
20             let calcBtn = UIButton(frame: CGRect(x: 0, y: 0, width: view.frame.size.width,  
height: 60))  
21             calcBtn.backgroundColor = #  
22             calcBtn.setTitle("Calculate", for: .normal)  
23             calcBtn.setTitleColor(white, for: .normal)  
24             calcBtn.addTarget(self, action: #selector(MainVC.calculate), for: .touchUpInside)  
25  
26             wageTxt.inputAccessoryView = calcBtn  
27             priceTxt.inputAccessoryView = calcBtn  
28     }  
29  
30     @objc func calculate() {  
31         print("We got here")  
32     }  
33 }
```



Building window-shopper: window-shopper

Mon 4:39 PM Mark

1. Create button in code
2. Set it as accessory view to textfield