

EVOLUTION

So odd, this is a girl

A revolution

Thin

Just

Shells

This is the second "P" in "App", which is short for application (in case you didn't know!)

"O" is most definitely the best letter of the alphabet

Sharp "V" shapes

Right angle

Curves

Thin

Again, "O" is totally the best letter

*"L" is for the way you look at me.
"O" is for the only one I love.*

"N" for Natural Selection, Darwin

with *Swift*

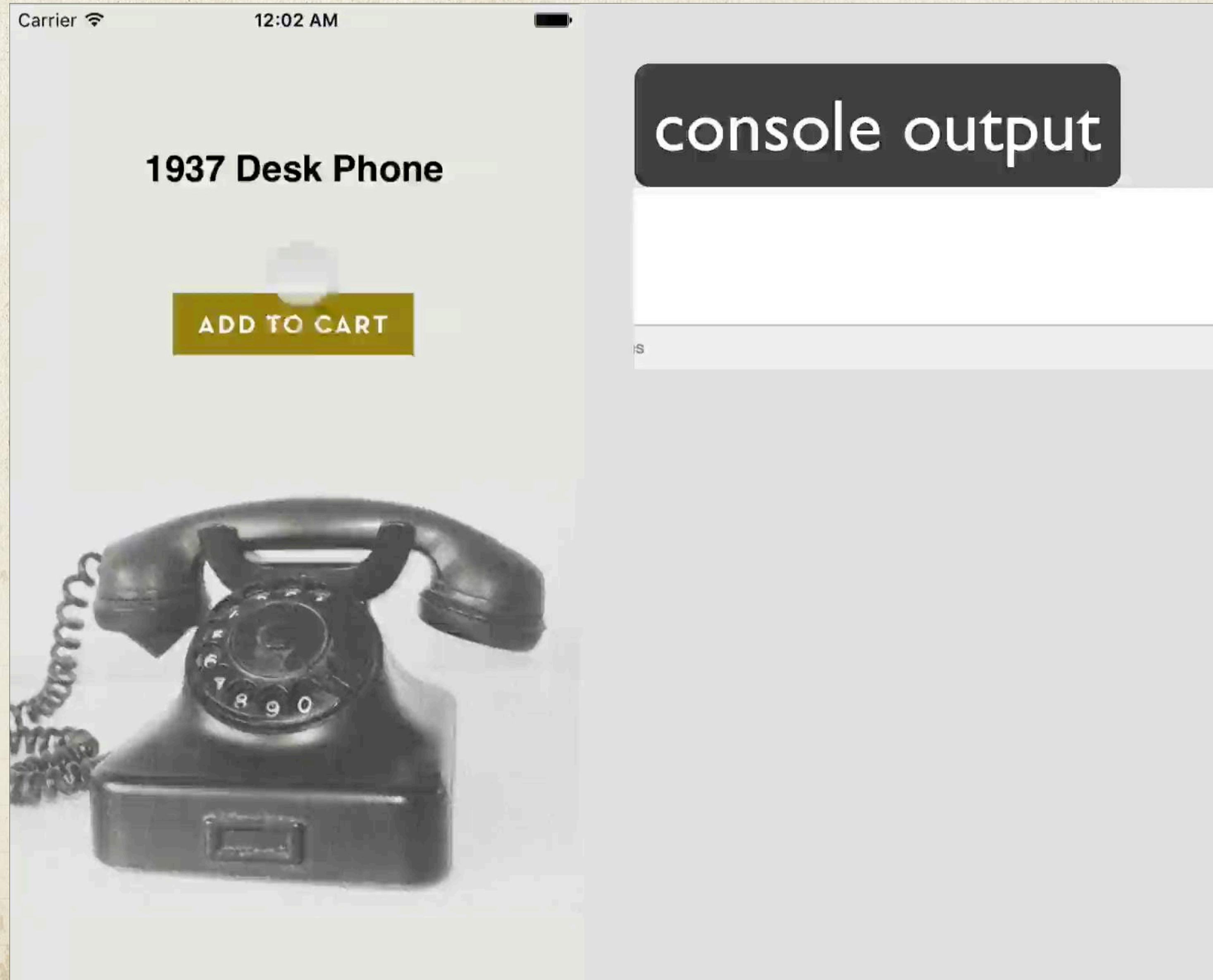
Level 2

Outlets and Actions

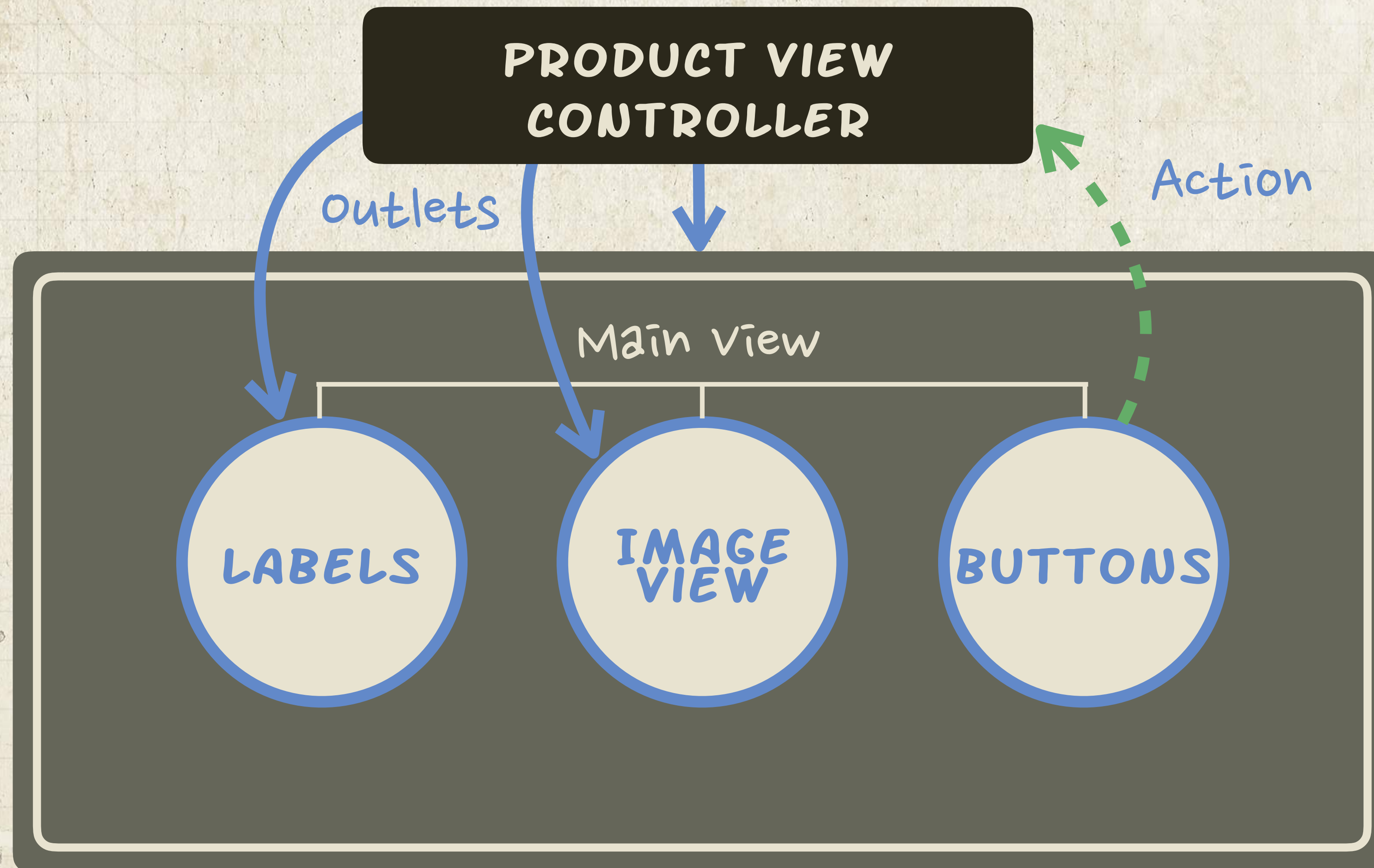
Section 2 - Storyboard Actions



Problem: Responding to an Action in a View



Actions Are Created From Views to Controllers



Actions are used to send interaction information back to a view controller

Screencast: Connect the Button With an Action



Linking a Function to an Action

ProductViewController.swift

```
import UIKit

class ProductViewController: UIViewController {

    @IBOutlet weak var productNameLabel: UILabel!
    @IBOutlet weak var productImageView: UIImageView!

    override func viewDidLoad() { ... }
```

```
    @IBAction func addToCartPressed(sender: AnyObject) -> Void {
    }
}
```

void means the
function doesn't
return any values



This function now runs when the button is tapped

Logging a Message When the Button Is Tapped

ProductViewController.swift

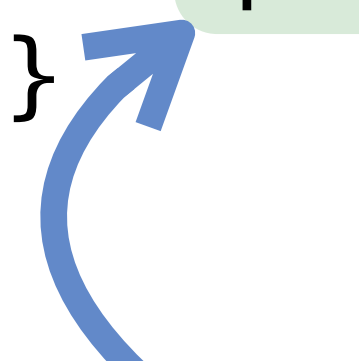
```
import UIKit

class ProductViewController: UIViewController {

    @IBOutlet weak var productNameLabel: UILabel!
    @IBOutlet weak var productImageView: UIImageView!

    override func viewDidLoad() { ... }

    @IBAction func addToCartPressed(sender: AnyObject) -> Void {
        print("Button tapped")
    }
}
```



print() logs a message to the xcode console

Demo: Button Tap Logs a Message to the Console

The screenshot displays the Xcode IDE with an iPhone 6s simulator running an app. The simulator screen shows a product listing for a "1937 Desk Phone" with a black rotary phone image and a yellow "ADD TO CART" button. The Xcode interface shows the "ProductViewController.swift" file in the center, with the following code:

```
ProductViewController.swift

import UIKit

class ProductViewController: UIViewController {

    var productNameLabel: UILabel!
    var productImageView: UIImageView!

    override func viewDidLoad() {
        super.viewDidLoad()

        productNameLabel.text = "1937 Desk Phone"
        productImageView.image = UIImage(named: "phone-1937")

        // Add tap action to the button
        addToCartButton.addTarget(self, action: #selector(didTapCartButton), for: .touchUpInside)
    }

    @objc func didTapCartButton() {
        NSLog("Button tapped!")
    }
}
```

The right-hand pane shows the "Identity and Type" inspector for the selected button, indicating it is a "UIButton" and is part of the "GoodAsOldPhones" target. The bottom status bar shows the app name "GoodAsOldPhones".