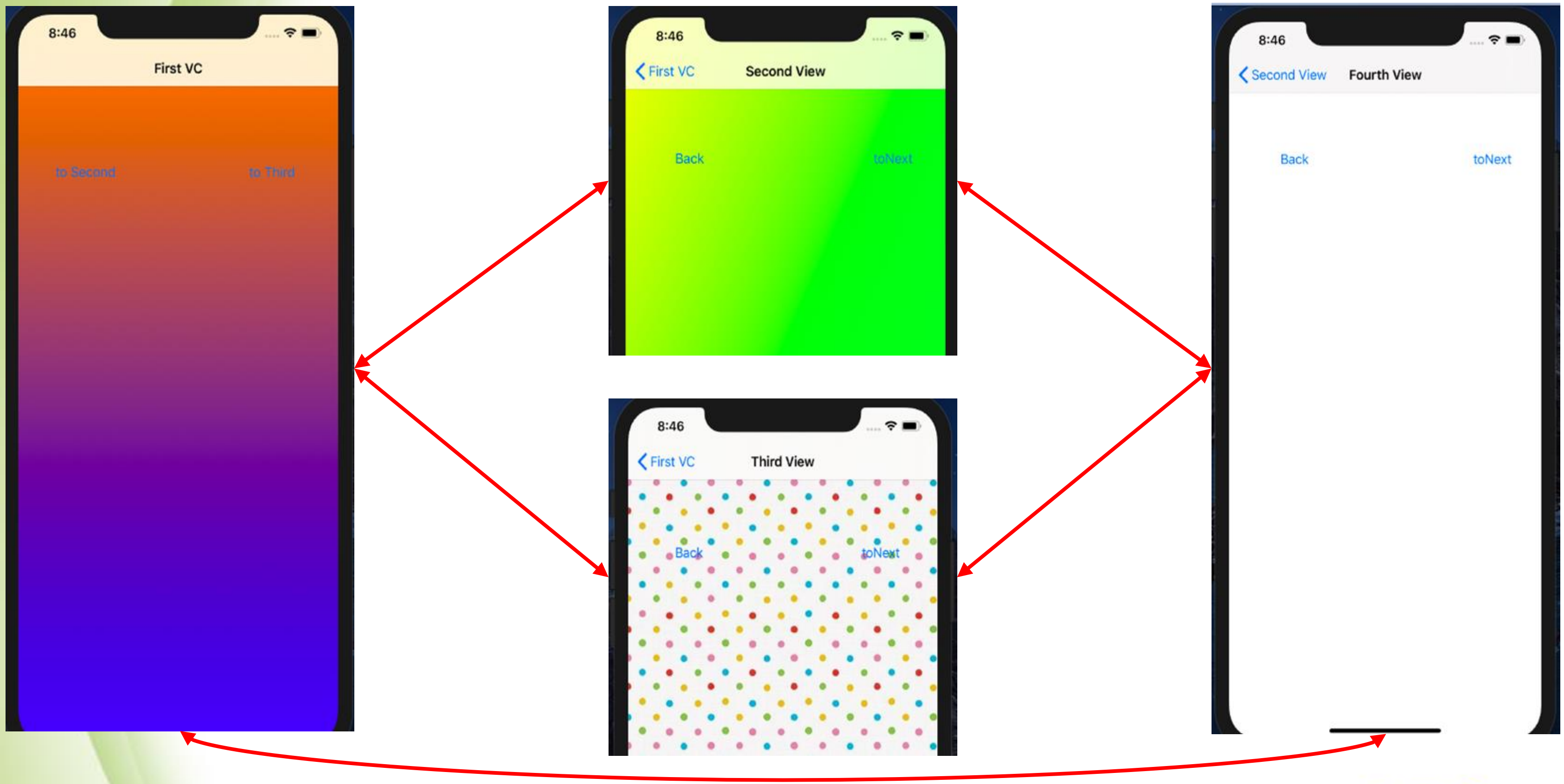
Class 3

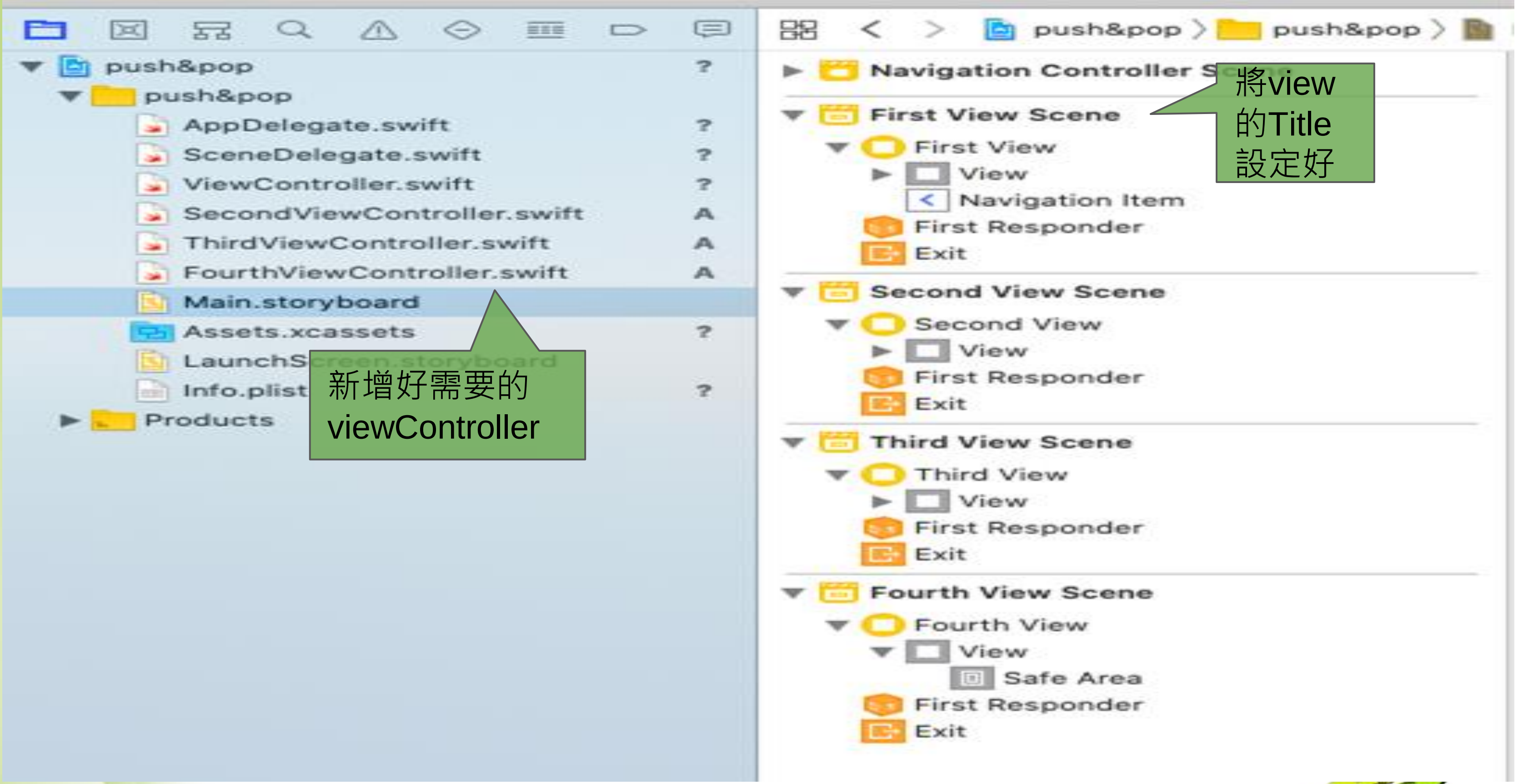
TAIWAN TECH National Taiwan University of Science and Technology

HPCLab High-Performance Computing Laboratory

Navigation - push & pop



Navigation - push & pop

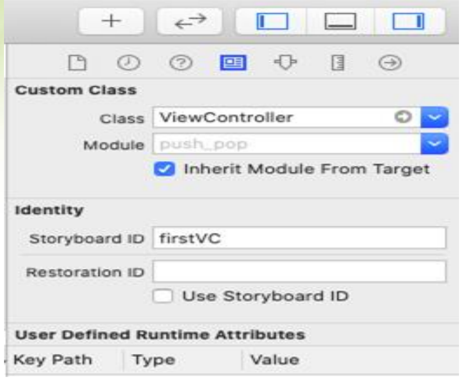


將view的Title設定好

新增好需要的viewController

Navigation - push & pop

分別將view的controller與identity設定好



Custom Class

Class ViewController

Module push_pop

☑ Inherit Module From Target

Identity

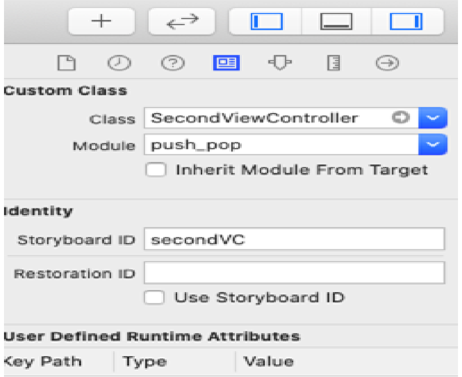
Storyboard ID firstVC

Restoration ID

□ Use Storyboard ID

User Defined Runtime Attributes

Key Path	Type	Value



Custom Class

Class SecondViewController

Module push_pop

□ Inherit Module From Target

Identity

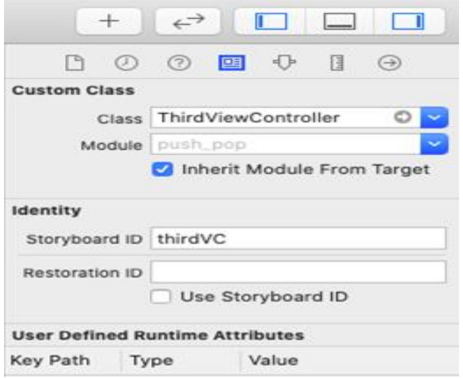
Storyboard ID secondVC

Restoration ID

□ Use Storyboard ID

User Defined Runtime Attributes

Key Path	Type	Value



Custom Class

Class ThirdViewController

Module push_pop

☑ Inherit Module From Target

Identity

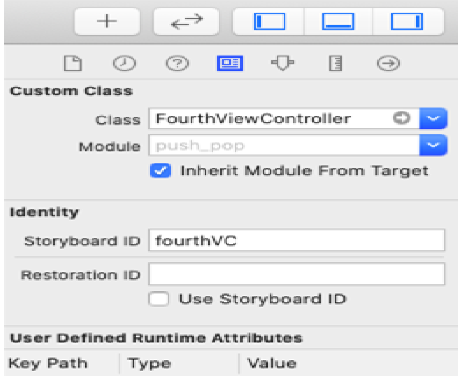
Storyboard ID thirdVC

Restoration ID

□ Use Storyboard ID

User Defined Runtime Attributes

Key Path	Type	Value



Custom Class

Class FourthViewController

Module push_pop

☑ Inherit Module From Target

Identity

Storyboard ID fourthVC

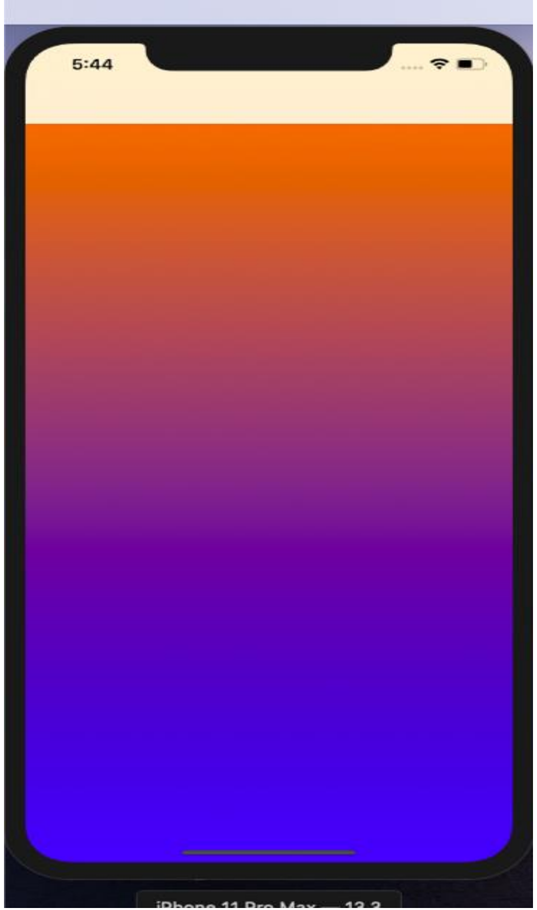
Restoration ID

□ Use Storyboard ID

User Defined Runtime Attributes

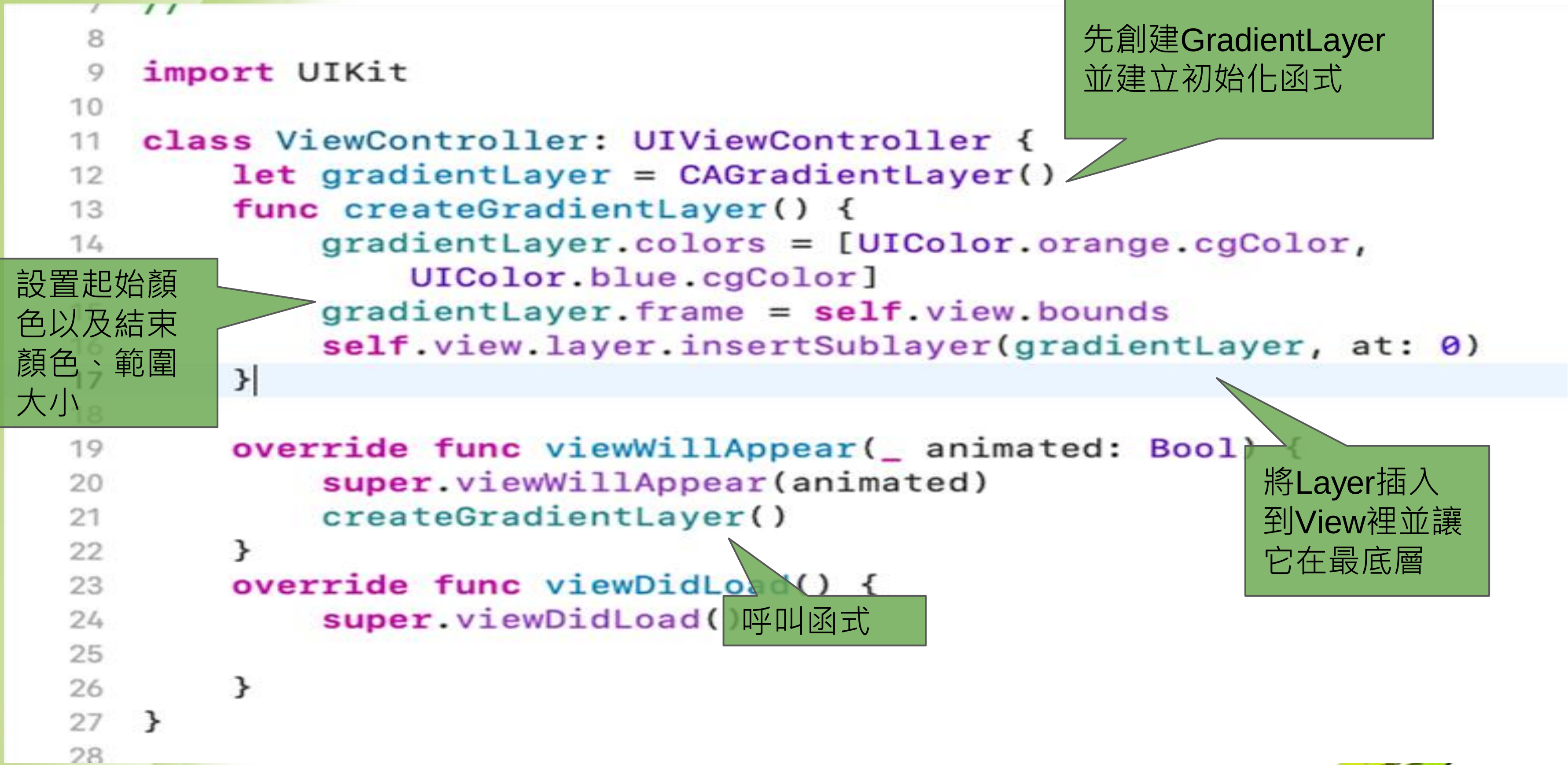
Key Path	Type	Value

Navigation - push & pop



有漸層
的背景

Navigation - push & pop



```
//

import UIKit

class ViewController: UIViewController {
    let gradientLayer = CAGradientLayer()
    func createGradientLayer() {
        gradientLayer.colors = [UIColor.orange.cgColor,
            UIColor.blue.cgColor]
        gradientLayer.frame = self.view.bounds
        self.view.layer.insertSublayer(gradientLayer, at: 0)
    }

    override func viewWillAppear(_ animated: Bool) {
        super.viewWillAppear(animated)
        createGradientLayer()
    }
    override func viewDidLoad() {
        super.viewDidLoad()

    }
}
```

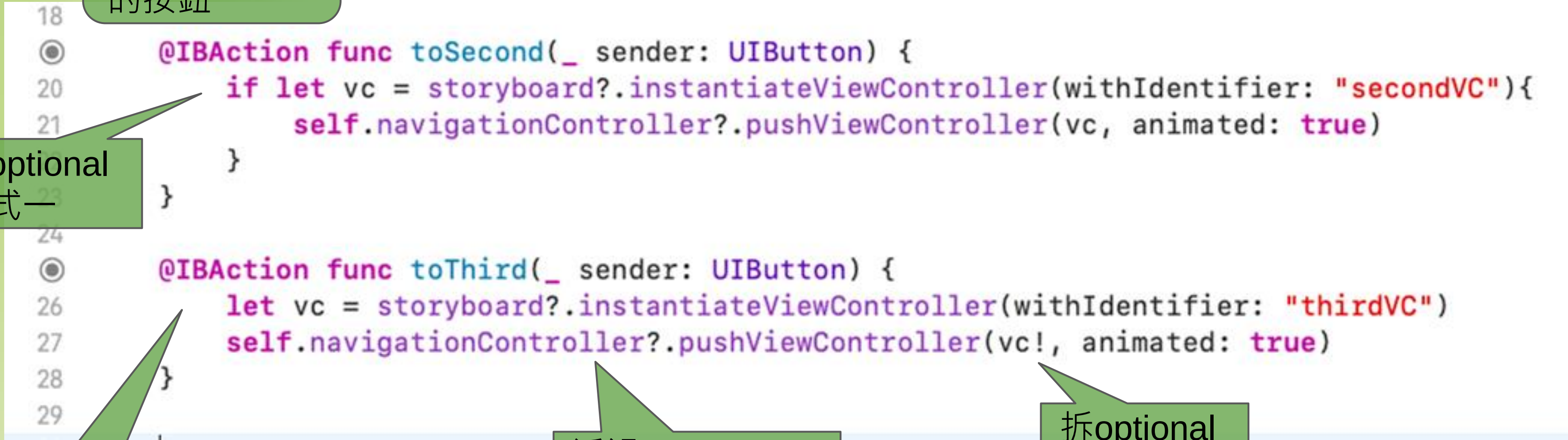
先創建GradientLayer
並建立初始化函式

設置起始顏色以及結束顏色、範圍大小

將Layer插入到View裡並讓它在最底層

呼叫函式

Navigation - push & pop



```
    @IBAction func toSecond(_ sender: UIButton) {
        if let vc = storyboard?.instantiateViewController(withIdentifier: "secondVC"){
            self.navigationController?.pushViewController(vc, animated: true)
        }
    }

    @IBAction func toThird(_ sender: UIButton) {
        let vc = storyboard?.instantiateViewController(withIdentifier: "thirdVC")
        self.navigationController?.pushViewController(vc!, animated: true)
    }
```

設置要從主頁到其他頁的按鈕

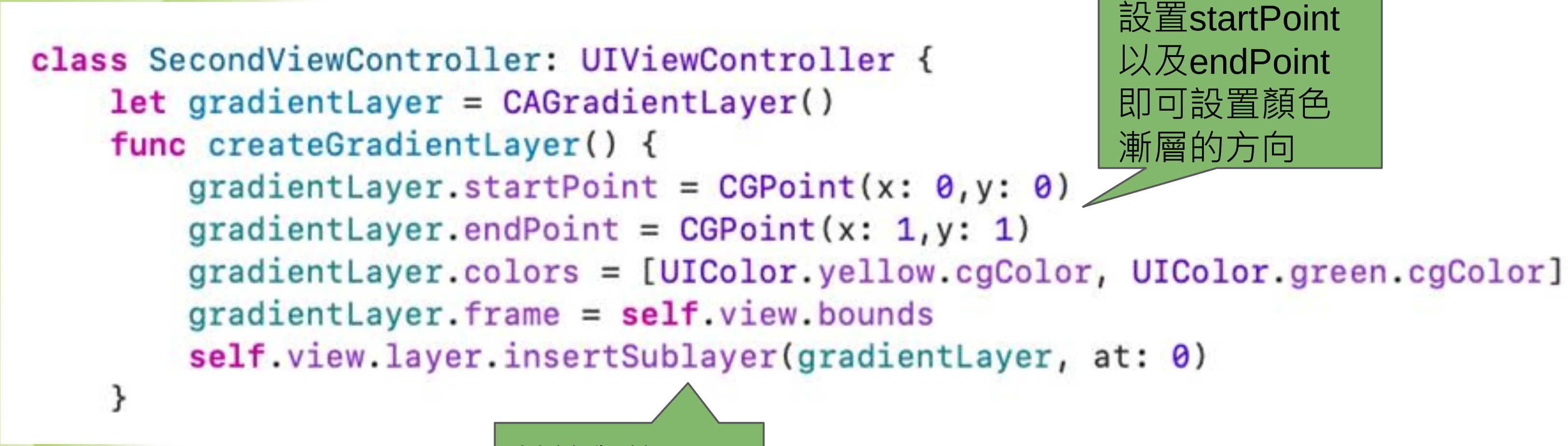
拆optional方式一

與之前一樣用identifier取得view

透過navigation使用push來顯示頁面

拆optional方式二

Navigation - push & pop



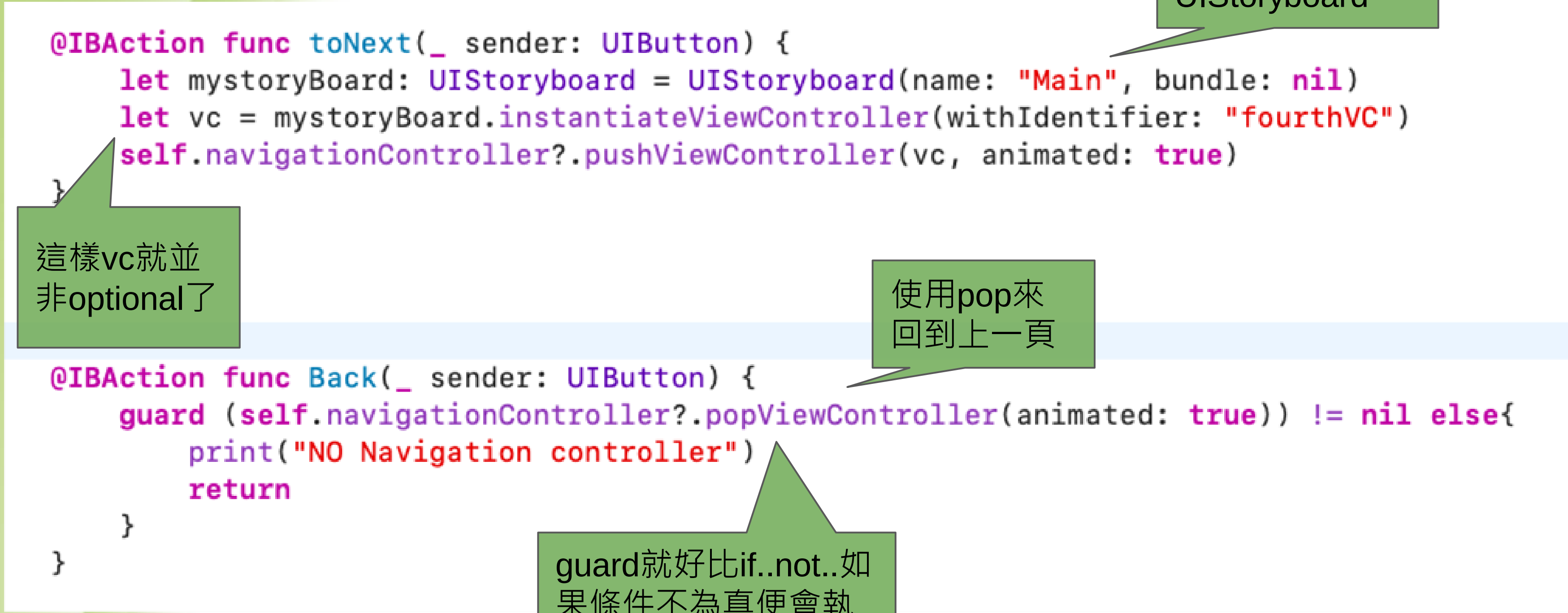
```
class SecondViewController: UIViewController {
    let gradientLayer = CAGradientLayer()
    func createGradientLayer() {
        gradientLayer.startPoint = CGPoint(x: 0,y: 0)
        gradientLayer.endPoint = CGPoint(x: 1,y: 1)
        gradientLayer.colors = [UIColor.yellow.cgColor, UIColor.green.cgColor]
        gradientLayer.frame = self.view.bounds
        self.view.layer.insertSublayer(gradientLayer, at: 0)
    }
```

設置startPoint以及endPoint即可設置顏色漸層的方向

其餘與前面同

Navigation - push & pop

也可以手動去接
UIStoryboard



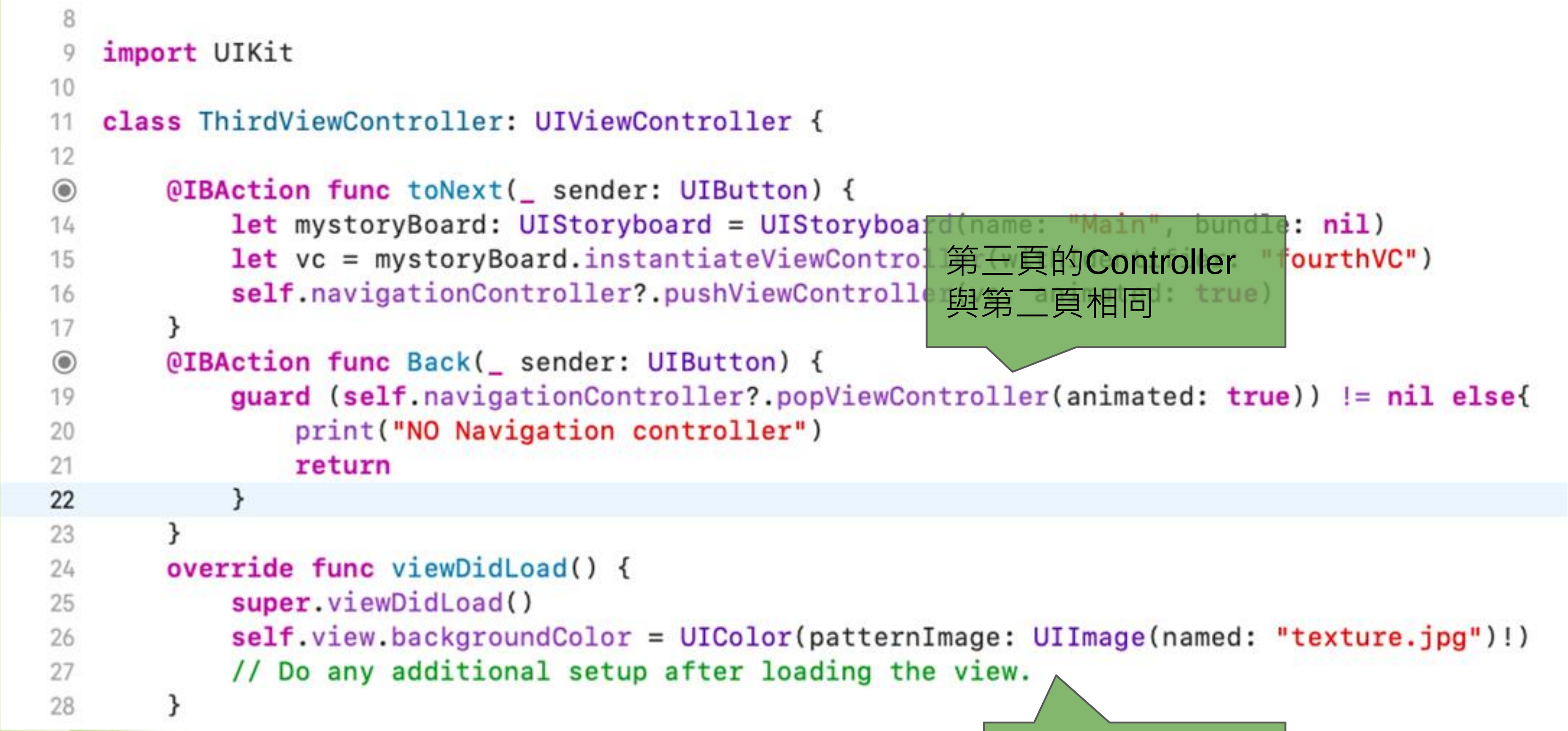
```
@IBAction func toNext(_ sender: UIButton) {
    let mystoryBoard: UIStoryboard = UIStoryboard(name: "Main", bundle: nil)
    let vc = mystoryBoard.instantiateViewController(withIdentifier: "fourthVC")
    self.navigationController?.pushViewController(vc, animated: true)
}


@IBAction func Back(_ sender: UIButton) {
    guard (self.navigationController?.popViewController(animated: true)) != nil else{
        print("NO Navigation controller")
        return
    }
}
```

這樣vc就並
非optional了

使用pop來
回到上一頁

guard就好比if..not..如
果條件不為真便會執
行else的內容其中一
定要包含return主要用
在例外事件

Navigation - push & pop

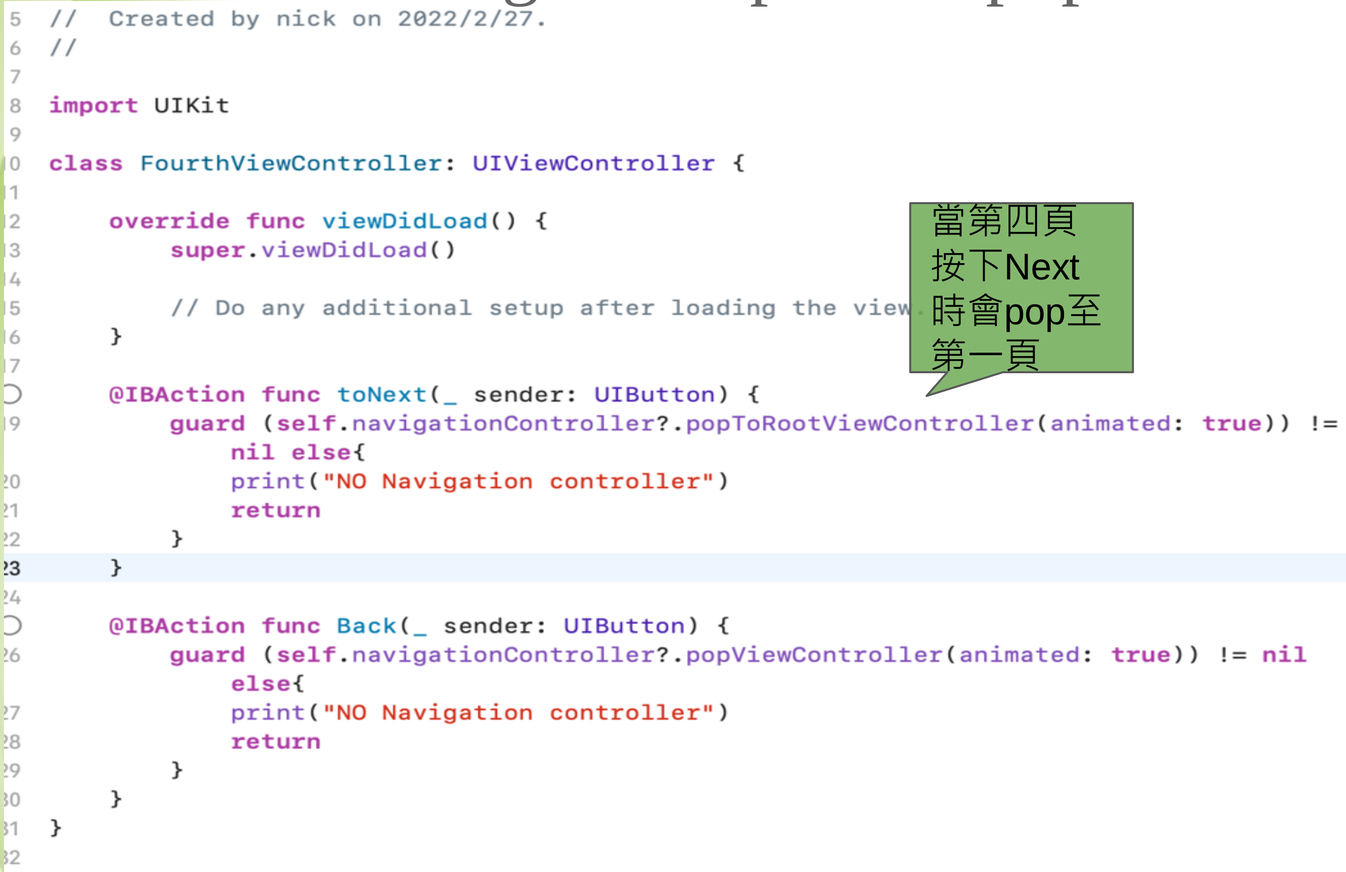


```swift

import UIKit

class ThirdViewController: UIViewController {

    @IBAction func toNext(_ sender: UIButton) {
        let mystoryBoard: UIStoryboard = UIStoryboard(name: "Main", bundle: nil)
        let vc = mystoryBoard.instantiateViewController(withIdentifier: "fourthVC")
        self.navigationController?.pushViewController(vc, animated: true)
    }
    @IBAction func Back(_ sender: UIButton) {
        guard (self.navigationController?.popViewController(animated: true)) != nil else{
            print("NO Navigation controller")
            return
        }
    }
    override func viewDidLoad() {
        super.viewDidLoad()
        self.view.backgroundColor = UIColor(patternImage: UIImage(named: "texture.jpg")!)
        // Do any additional setup after loading the view.
    }
```

第三頁的Controller
與第二頁相同

在viewDidLoad
將圖片轉為顏色
並設置背景

Navigation - push & pop



```
//  Created by nick on 2022/2/27.
//

import UIKit

class FourthViewController: UIViewController {

    override func viewDidLoad() {
        super.viewDidLoad()

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

    @IBAction func toNext(_ sender: UIButton) {
        guard (self.navigationController?.popToRootViewController(animated: true)) !=
            nil else{
            print("NO Navigation controller")
            return
        }
    }

    @IBAction func Back(_ sender: UIButton) {
        guard (self.navigationController?.popViewController(animated: true)) != nil
            else{
            print("NO Navigation controller")
            return
        }
    }
}
```

當第四頁按下Next時會pop至第一頁