



分別將view 的controller 與identity設 定好

+	←					
	3		-0-	3	⊕	
<b>Custom Class</b>						
Class	View	0	~			
Module	push_pop ~					
Identity	✓ Ini	herit M	lodule	From	Targe	et
Storyboard ID	first\	/C				
Restoration ID						
	Us	e Stor	yboar	d ID		
User Defined R	untime	e Attril	outes			
Key Path Ty	Туре		/alue			

+	<b>←</b>	>			
	3		0	<b>3</b>	⊕
<b>Custom Class</b>					
Class	ThirdViewController © ~				
Module	push_pop				
Identity	<b>⊘</b> In	herit N	Module	e From	Target
Storyboard ID	third	IVC			
Restoration ID	U:	se Sto	ryboai	rd ID	
User Defined R	untim	e Attri	butes		
Key Path Ty	Type		/alue		

+	$\leftrightarrow$						
	3		-0-	3	$\oplus$		
Custom Class							
Class	SecondViewController						
Module	push_pop					~	
	_ Int	nerit M	lodule	From	Targe	rt	
Identity							
Storyboard ID	secondVC						
Restoration ID							
	Us	e Stor	yboai	rd ID			
User Defined R	untime	Attril	butes				
Key Path Ty	ре	V	Value				

+	<b>←</b>					
	3	<u></u>	0	3	⊕	
<b>Custom Class</b>						
Class	FourthViewController				0	
Module	push_pop					
Identity	☑ Ini	herit M	lodule	From	Target	
Storyboard ID	fourt	hVC				
Restoration ID	Us	se Stor	yboar	d ID		
User Defined Ru	untime	e Attril	butes			
Key Path Ty	Type		Value			





有漸層 的背景





```
Navigation - push & pop
                                                 先創建GradientLayer
     import UIKit
                                                並建立初始化函式
  10
     class ViewController: UIViewController {
         let gradientLayer = CAGradientLayer()
  12
         func createGradientLayer() {
  13
             gradientLayer.colors = [UIColor.orange.cgColor,
  14
                 UIColor.blue.cgColor]
設置起始顏
             gradientLayer.frame = self.view.bounds
色以及結束
             self.view.layer.insertSublayer(gradientLayer, at: 0)
顏色、範圍
         }
大小
         override func viewWillAppear(_ animated: Bool)
  19
                                                         將Layer插入
             super.viewWillAppear(animated)
  20
                                                         到View裡並
             createGradientLayer()
  21
                                                         讓它在最底
  22
         override func viewDidLo
  23
  24
             super.viewDidLoad()呼叫函式
  25
  26
  27
  28
```



設置要從主 頁到其他頁 的按鈕 © @IBAction 20 if le

# Navigation - push & pop

```
@IBAction func toSecond(_ sender: UIButton) {
                if let vc = storyboard?.instantiateViewController(withIdentifier: "secondVC"){
                    self.navigationController?.pushViewController(vc, animated: true)
拆optional
            }
方式一
     24
            @IBAction func toThird(_ sender: UIButton) {
                let vc = storyboard?.instantiateViewController(withIdentifier: "thirdVC")
     26
                self.navigationController?.pushViewController(vc!, animated: true)
     27
     28
     29
                                                                 拆optional
                                    透過navigation
                                                                 方式二
                                    使用push來顯
與之前一樣
                                    示頁面
用identifier
```



取得view



```
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)
}
```

其餘與前面同





也可以手動去接 UIStoryboard

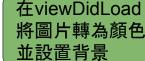
```
@IBAction func toNext(_ sender: UIButton) {
    let mystoryBoard: UIStoryboard = UIStoryboard(name: "Main", bundle: nil)
    let vc = mystoryBoard.instantiateViewController(withIdentifier: "fourthVC")
    self.navigationController?.pushViewController(vc, animated: true)
這樣vc就並
非optional
                                               使用pop來
                                               回到上一頁
@IBAction func Back(_ sender: UIButton) {
    guard (self.navigationController?.popViewController(animated: true)) != nil else{
        print("NO Navigation controller") /
        return
                             quard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





```
import UIKit
   class ThirdViewController: UIViewController {
12
       @IBAction func toNext(_ sender: UIButton) {
(0)
           let mystoryBoard: UIStoryboard = UIStoryboard(name: "Main", bundle: nil)
14
           let vc = mystoryBoard.instantiateViewControl
15
                                                         第三頁的Controller
                                                                               fourthVC")
           self.navigationController?.pushViewController
16
                                                         與第二頁相同
17
       @IBAction func Back(_ sender: UIButton) {
(0)
           guard (self.navigationController?.popViewController(animated: true)) != nil else{
19
20
               print("NO Navigation controller")
               return
22
23
       override func viewDidLoad() {
24
           super.viewDidLoad()
25
           self.view.backgroundColor = UIColor(patternImage: UIImage(named: "texture.jpg")!)
26
           // Do any additional setup after loading the view.
27
28
```





```
push&pop ) push&pop ) FourthViewController.swift ) M toNext(_:)
                                                                                                < △ > ≡□ F
       Cleated by evall oil 2020/3/10.
       Copyright @ 2020 evan. All rights reserved.
                                                          當第四頁
                                                          按下Next
   import UIKit
                                                          時會pop
10
   class FourthViewController: UIViewController {
                                                          至第一頁
0
       @IBAction func toNext(_ sender: UIButton) {
           guard (self.navigationController?.popToRootViewController(animated: true)) != nil else{
13
14
                print("NO Navigation controller")
15
                return
16
17
0
       @IBAction func Back( sender: UIButton) {
           guard (self.navigationController?.popViewController(animated: true)) != nil else{
19
                print("NO Navigation controller")
20
                return
23
       override func viewDidLoad() {
24
           super.viewDidLoad()
25
26
           // Do any additional setup after loading the view.
27
28
```