

Class 4



Table View

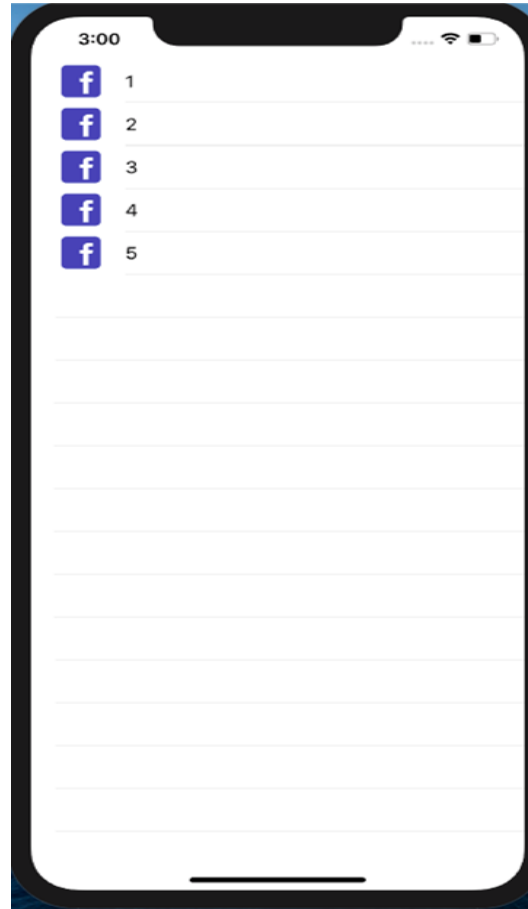


Table View

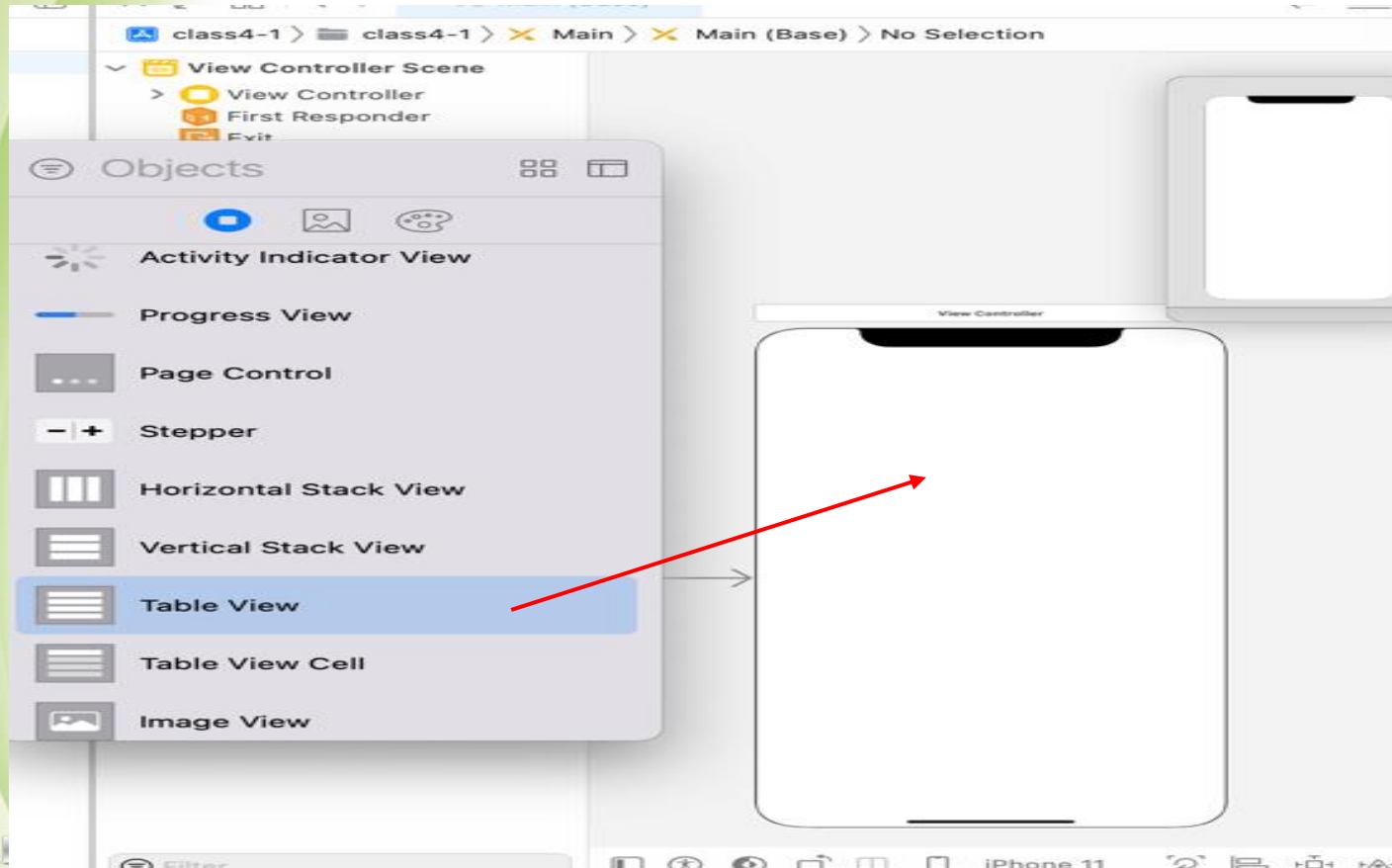


Table View

將tableView
拉到與畫面
差不多大小

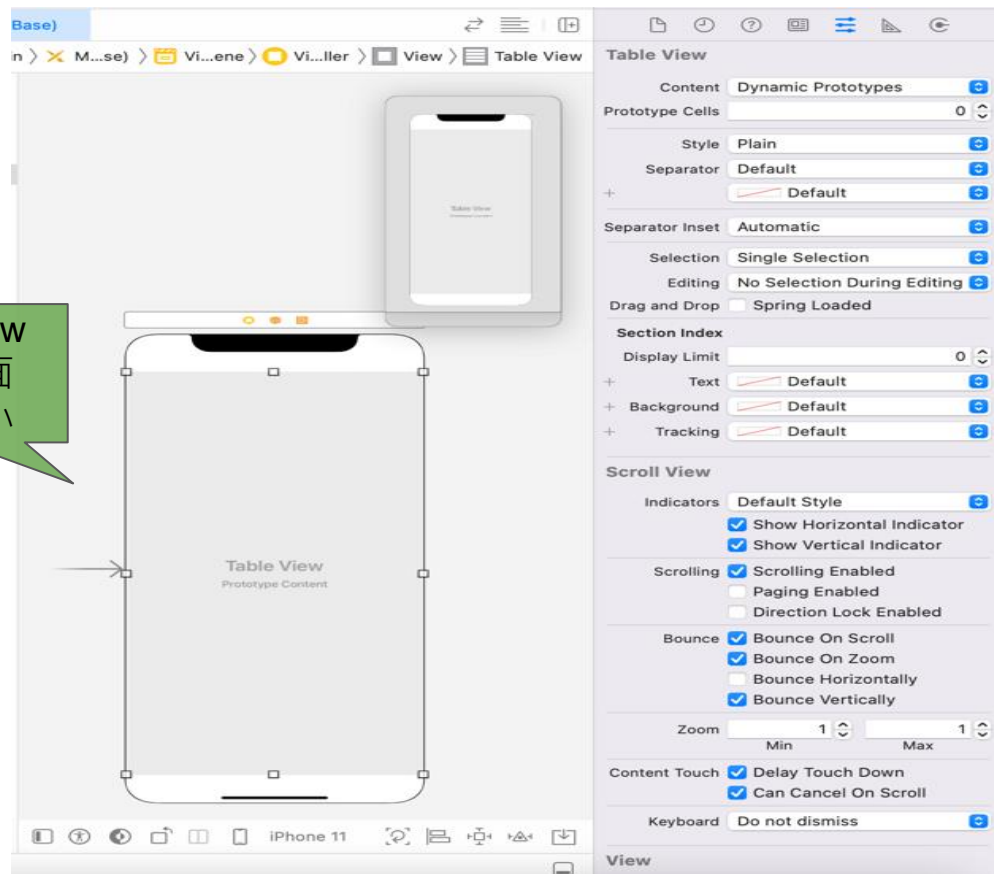
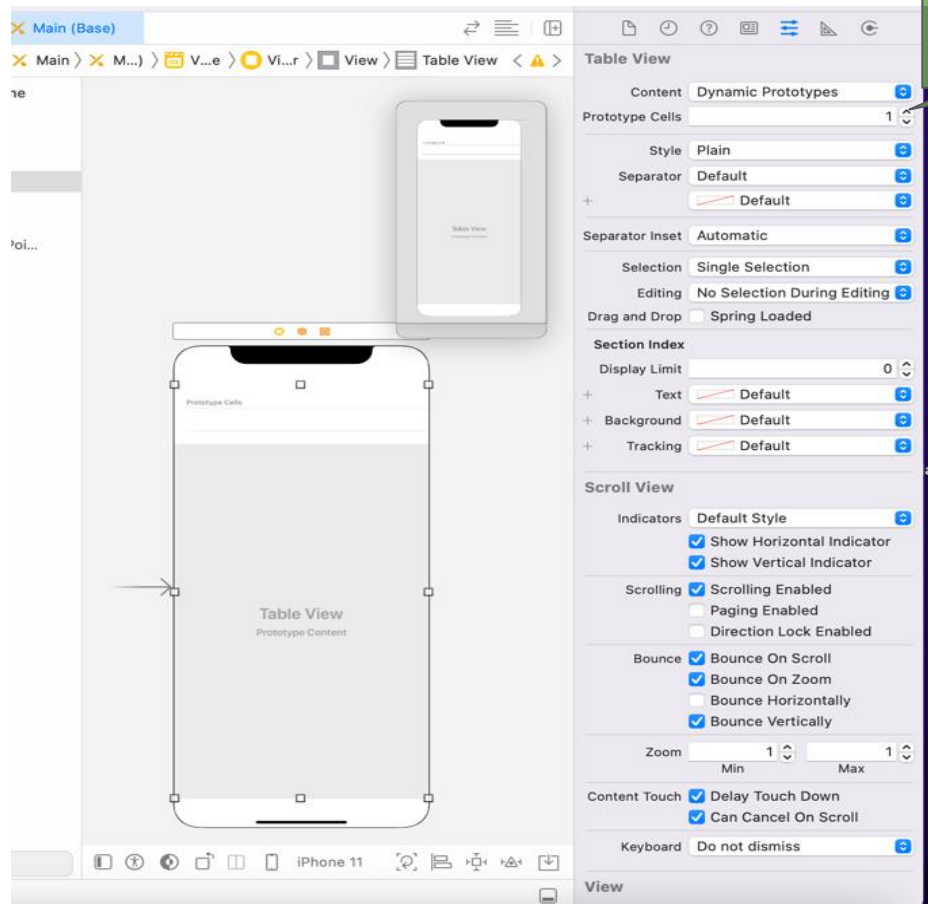


Table View



Table View



將cell的個數增加

Table View

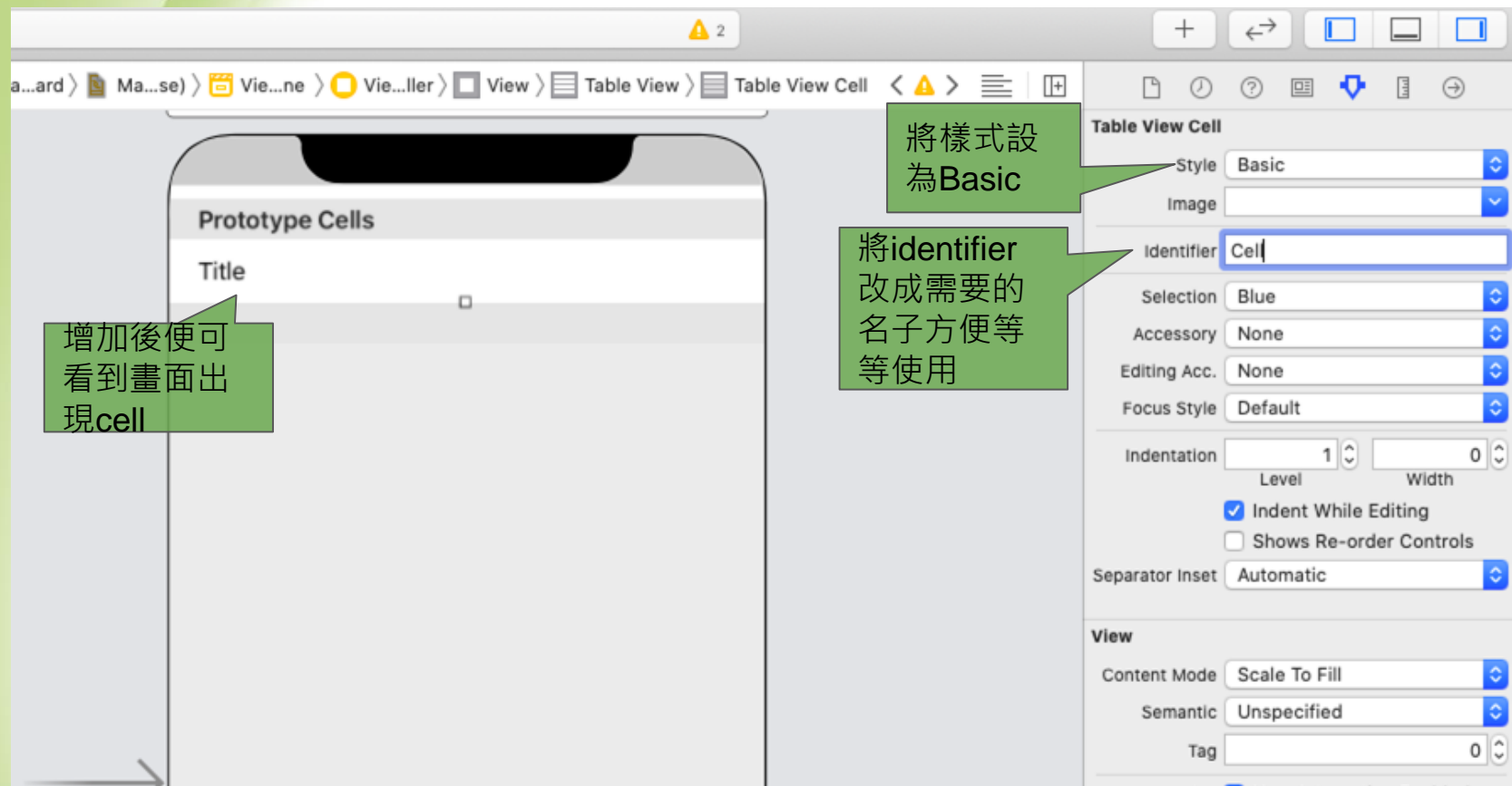


Table View



Table View

```
import UIKit
```

```
class ViewController: UIViewController, UITableViewDelegate, UITableViewDataSource {  
    var names = ["1", "2", "3", "4", "5"]
```

宣告一個字串陣列等等將他輸出到tableView

```
    func tableView(_ tableView: UITableView, numberOfRowsInSection section: Int) -> Int {  
        return names.count  
    }
```

每個section要有幾個row但這裡只有一個

```
    func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) ->  
        UITableViewCell {
```

使用變數去取得在tableView上的cell

```
        let cell = tableView.dequeueReusableCell(withIdentifier: "Cell", for: indexPath)  
        cell.textLabel?.text = names[indexPath.row]  
        return cell  
    }
```

將每個欄位的Label設置成陣列的字串

tableView有一種回收機制，當你在滾動畫面使得欄位超出畫面時並不會創建新的欄位給你裝新的資料而是回收舊的欄位給你使用

Table View

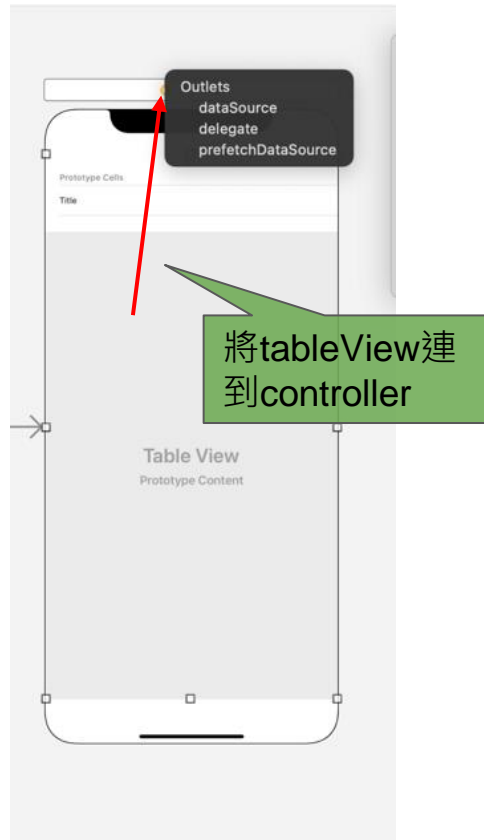


Table View

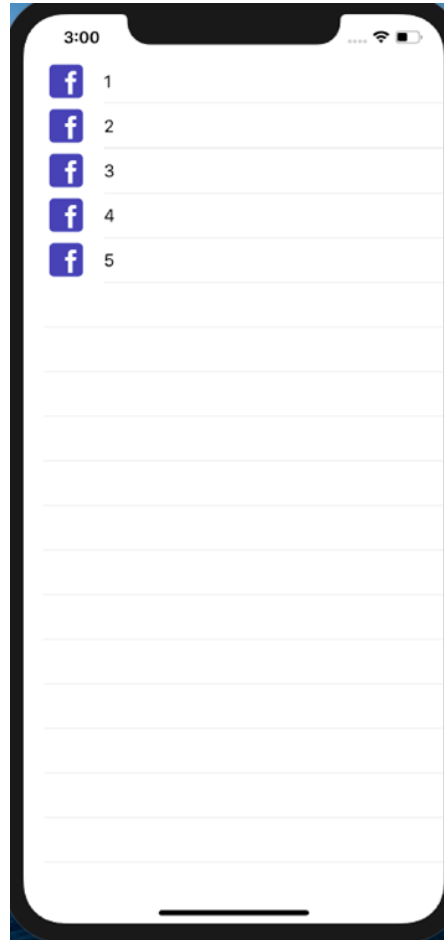


Table View

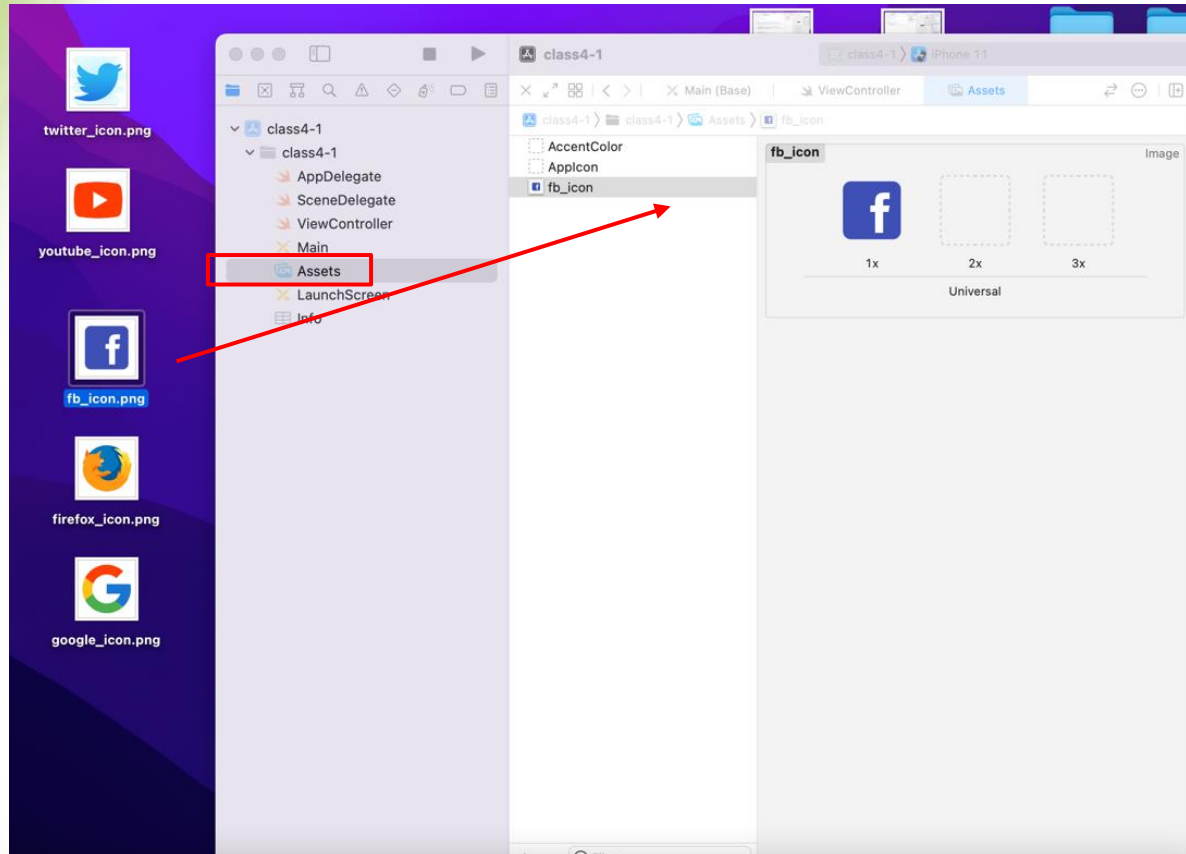


Table View

< > Table View > Table View > ViewController.swift > tableView(_:cellForRowAt:)

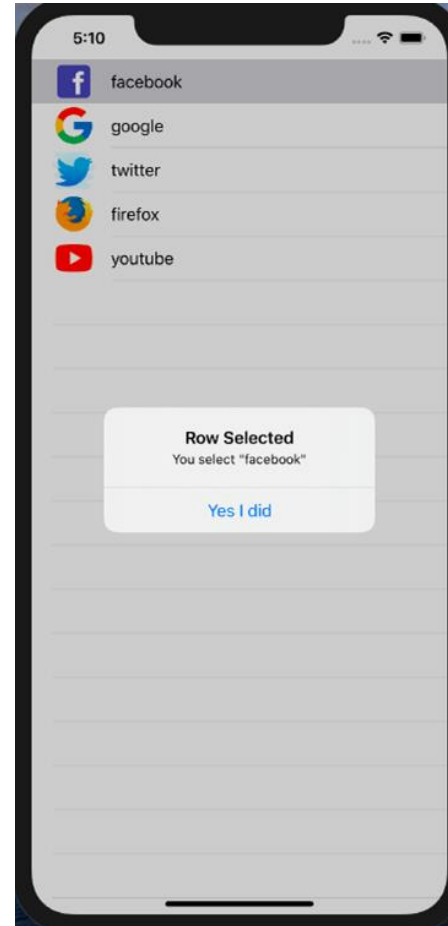
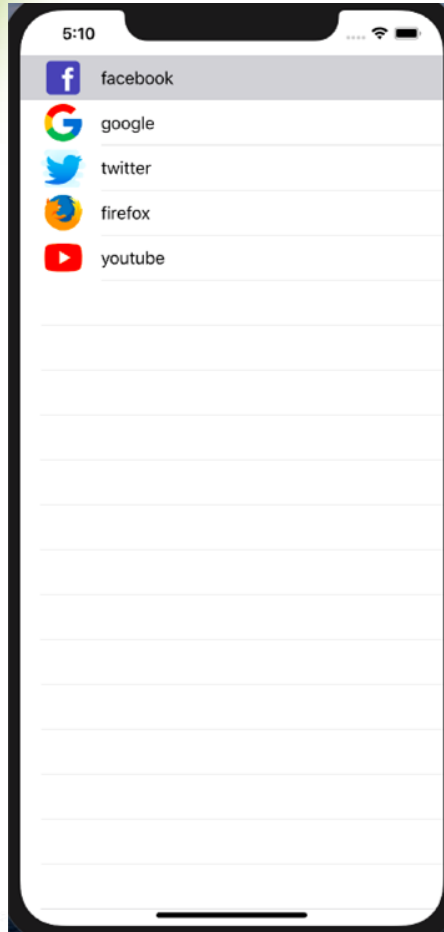


有可用的更新項目
您要立即安裝更新項目嗎？

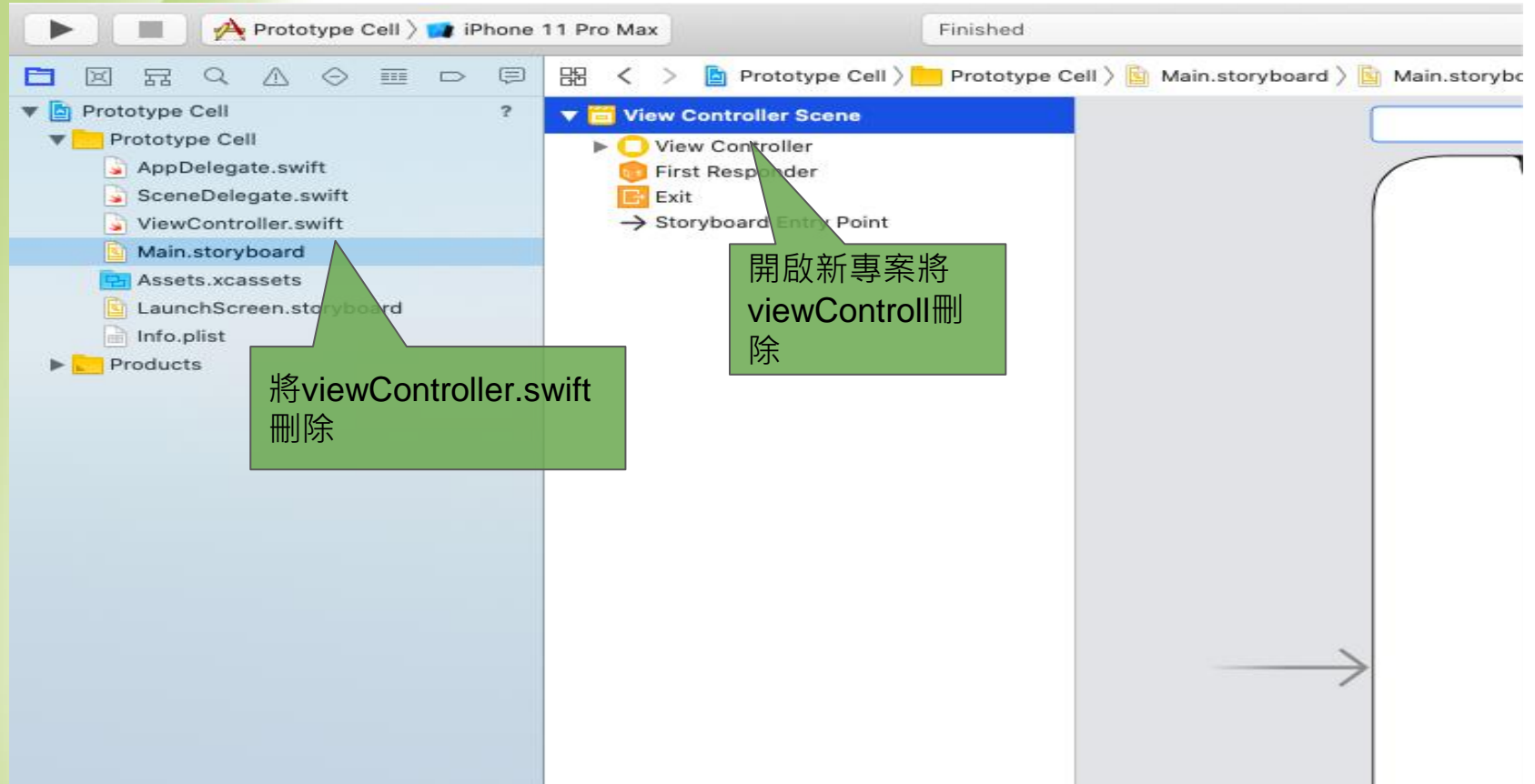
```
7 //
8
9 import UIKit
10
11 class ViewController: UIViewController, UITableViewDelegate, UITableViewDataSource {
12     var names = ["1", "2", "3", "4", "5"]
13
14     func tableView(_ tableView: UITableView, numberOfRowsInSection section: Int) -> Int {
15         return names.count
16     }
17
18     func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) ->
        UITableViewCell {
19         let cell = tableView.dequeueReusableCell(withIdentifier: "Cell", for: indexPath)
20         cell.textLabel?.text = names[indexPath.row]
21         cell.imageView?.image = UIImage(named: "facebook")
22         return cell
23     }
24 }
```

將圖案新增
到欄位上

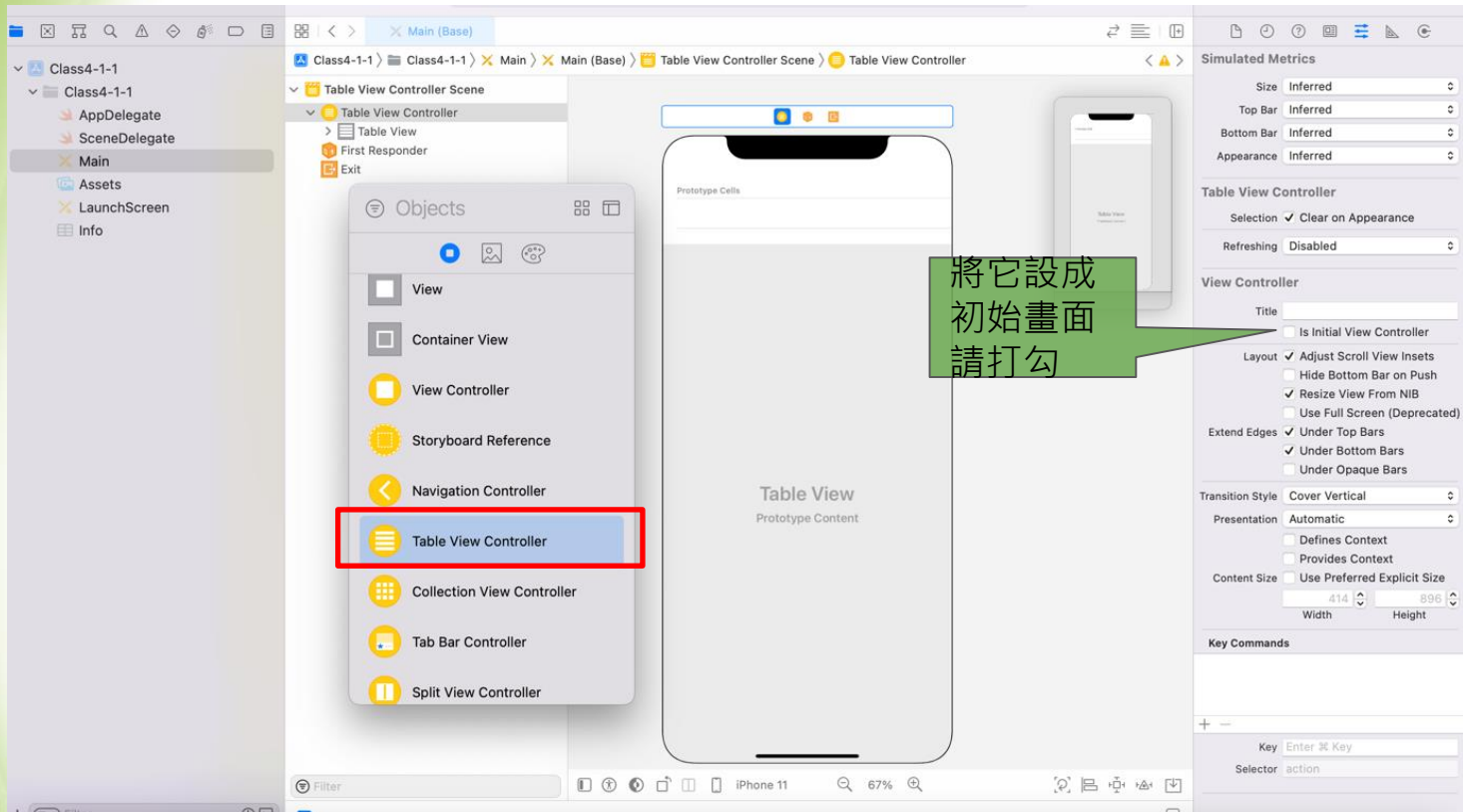
TableViewController



TableViewController



TableViewController



TableViewController

The image shows the Xcode interface for creating a new file. The left pane, titled "Choose a template for your new file:", displays various templates under "Source" and "User Interface". The "Cocoa Touch Class" template is selected. The right pane, titled "Choose options for your new file:", shows the configuration for the new class. The "Class" field is set to "TableViewController", the "Subclass of:" dropdown is set to "UITableViewController", and the "Language" is set to "Swift". A green callout points to the "Subclass of:" dropdown with the text "創新檔案將它繼承 UITableViewController". Below the right pane, a green callout points to the "Class" field with the text "將class 設置好". At the bottom, the "Custom Class" section shows the "Class" field set to "TableViewController" and the "Module" field set to "Prototype_Cell", with the "Inherit Module From Target" checkbox checked.

Choose a template for your new file:

iOS watchOS tvOS macOS Filter

Source

Cocoa Touch Class UI Test Case Class Unit Test Case Class Swift File Objective-C File

Header File IIG File C File C++ File Metal File

User Interface

Storyboard SwiftUI View View Empty Launch Screen

Cancel Previous Next

Choose options for your new file:

Class: TableViewController

Subclass of: UITableViewController

☐ Also create XIB file

Language: Swift

Cancel Previous Next

Custom Class

Class: TableViewController

Module: Prototype_Cell

☒ Inherit Module From Target

Identity

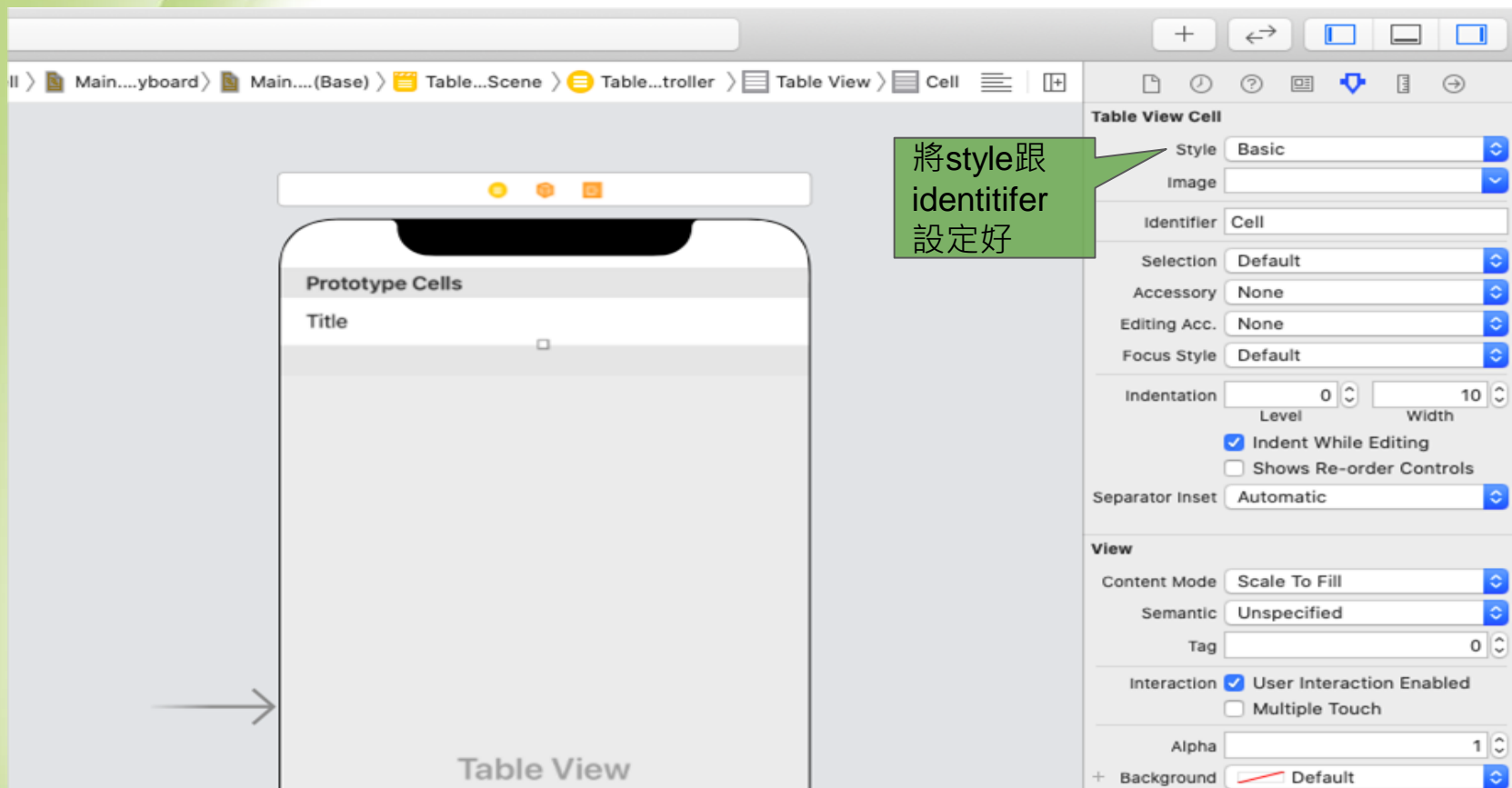
Storyboard ID

Restoration ID

將class 設置好

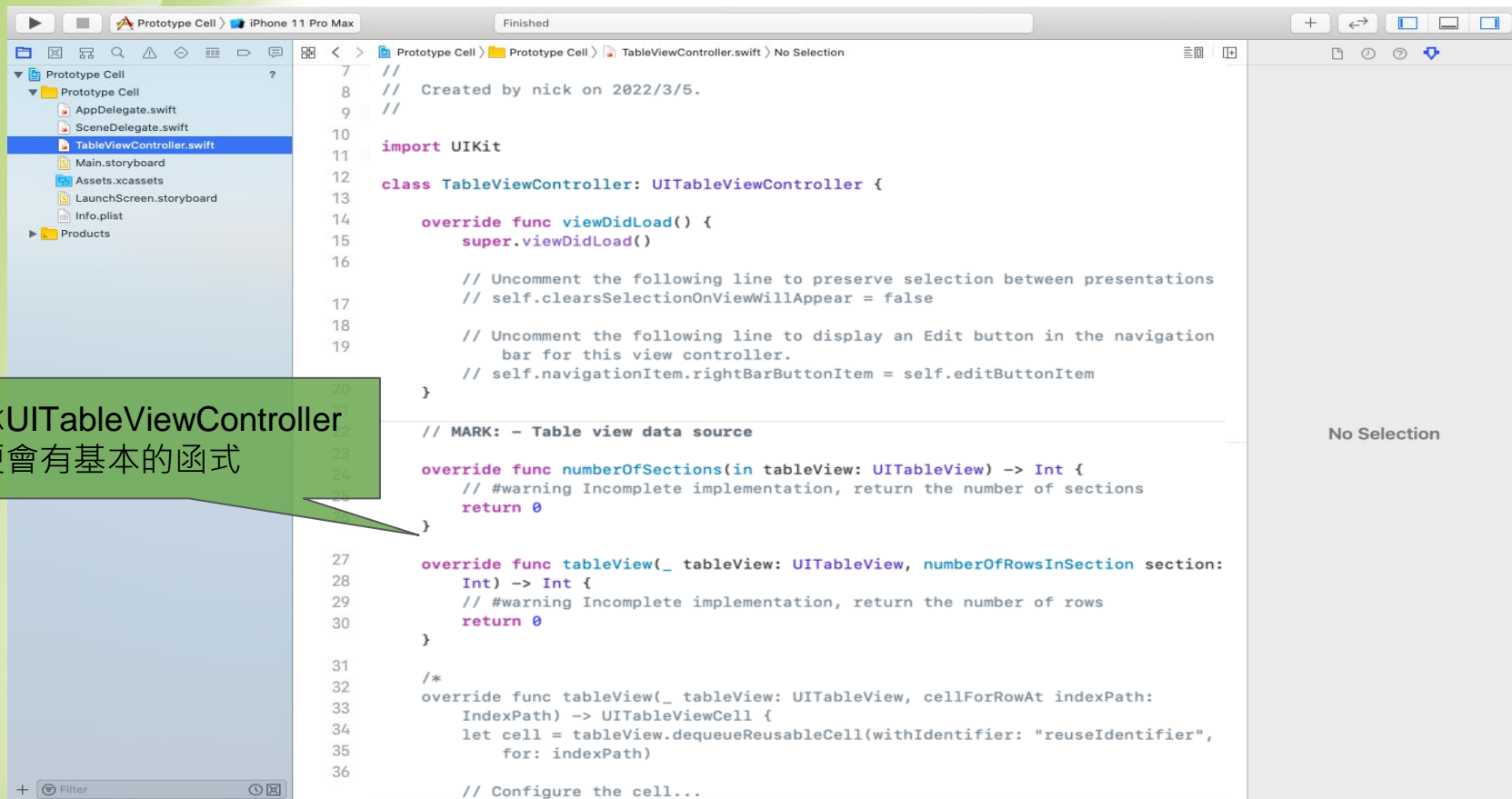
創新檔案將它繼承 UITableViewController

TableViewController



將style跟
identifer
設定好

TableViewController



TableViewController

```
var names = ["facebook", "google", "twitter", "firefox", "youtube"]  
var imgs = ["fb_icon", "google_icon", "twitter_icon", "firefox_icon", "youtube_icon"]
```

宣告名字
與圖片名
稱陣列

```
override func numberOfSections(in tableView: UITableView) -> Int {  
    // #warning Incomplete implementation, return the number of sections  
    return 1  
}
```

回傳有幾個
section

```
override func tableView(_ tableView: UITableView, numberOfRowsInSectionSection section: Int) -> Int {  
    // #warning Incomplete implementation, return the number of rows  
    return names.count  
}
```

每個section
有幾個row

```
override func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) ->  
    UITableViewCell {  
    let cell = tableView.dequeueReusableCell(withIdentifier: "Cell", for: indexPath)  
    cell.textLabel?.text = names[indexPath.row]  
    cell.imageView?.image = UIImage(named: imgs[indexPath.row])  
  
    return cell  
}
```

基本都與之前相同差別
在圖片是用陣列來決定

TableViewController

```
override func tableView(_ tableView: UITableView, didSelectRowAt indexPath: IndexPath) {  
    let alert = UIAlertController(title: "Row Selected", message: "You select \"\\(names[indexPath.row])\\\"",  
        preferredStyle: .alert)  
    let action = UIAlertAction(title: "Yes I did", style: .default, handler: nil)  
    alert.addAction(action)  
  
    present(alert, animated: true, completion: nil)  
}
```

選到後便
跳出訊息

此函式是指當選則row
時會觸發並且能從
"indexPath.row"來判
斷是哪個被選

TableViewController

```
override func viewDidLoad() {  
    super.viewDidLoad()  
    tableView.isEditing = true
```

開啟編輯狀態
(通常是用按鈕
來觸發開關)

```
  
    // Uncomment the following line to preserve selection between pres  
    // self.clearsSelectionOnViewWillAppear = false  
  
    // Uncomment the following line to display an Edit button in the n  
    view controller.  
    // self.navigationItem.rightBarButtonItem = self.editButtonItem  
}
```

TableViewController

```
// Override to support editing the table view.  
override func tableView(_ tableView: UITableView, commit editingStyle: UITableViewCell.EditingStyle, forRowAt  
indexPath: IndexPath) {  
    if editingStyle == .delete {  
        names.remove(at: indexPath.row)  
        imgs.remove(at: indexPath.row)  
        tableView.deleteRows(at: [indexPath], with: .fade)  
        tableView.reloadData()  
    } else if editingStyle == .insert {  
        // Create a new instance of the appropriate class, insert it into the array, and add a new row to the  
        view  
    }  
}
```

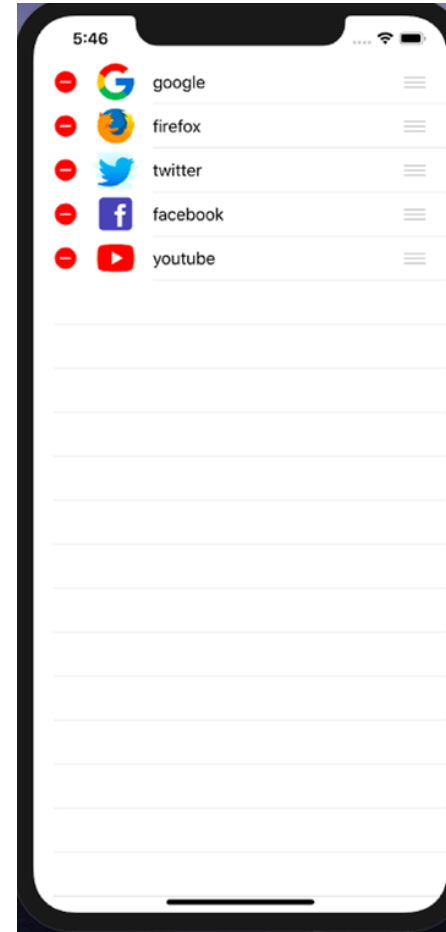
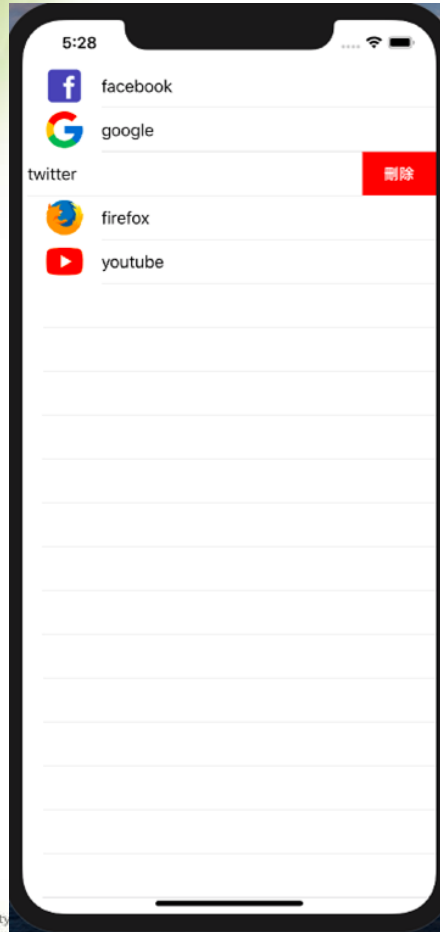
將元素從陣列中移
除不然資料對不上
會出錯

此行是將某一欄刪掉

當更新資料時通常
會將tableView刷
新，但這裡其實已
經幫你刷新過了因
此可加可不加

此函式在下面註
解的可以直接解開
註解使用，裡面是
編輯時要做的事

TableViewController



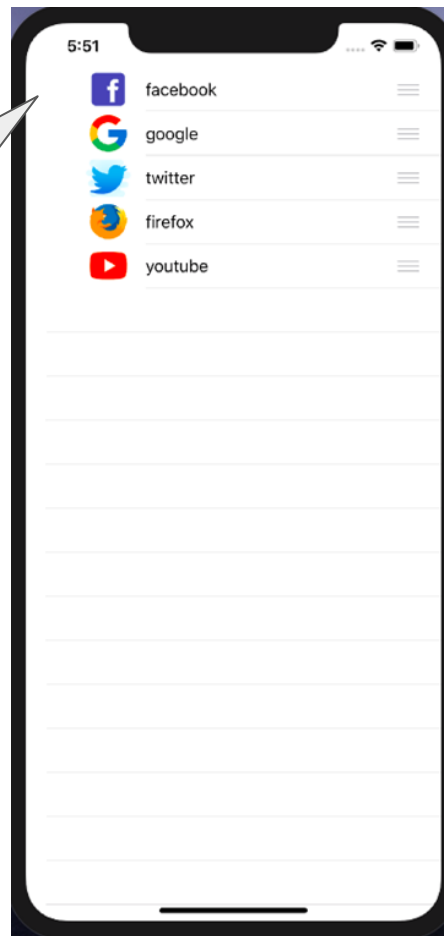
TableViewController



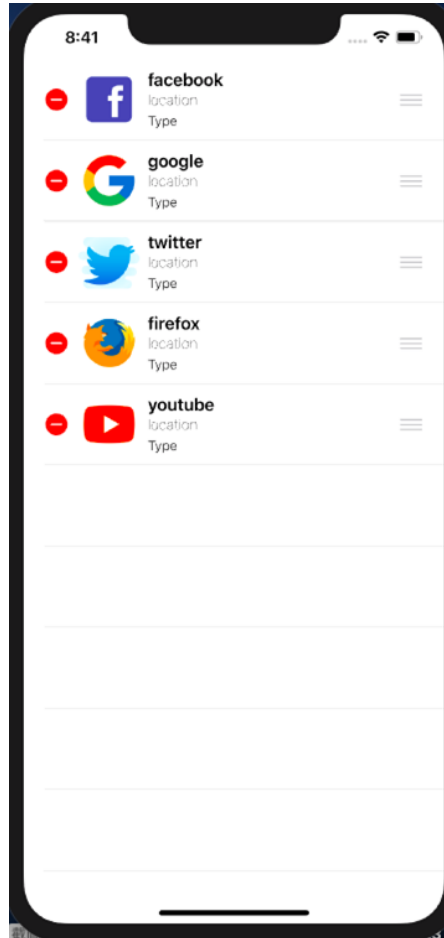
此函式是選擇
編輯模式的樣
式

TableViewController

當把編輯樣式
改成.none時
左邊便會消失



TableViewController



TableViewController

// Override to support rearranging the table view.

```
override func tableView(_ tableView: UITableView, moveRowAt fromIndexPath: IndexPath, to:
    IndexPath) {
    let tmp = names[fromIndexPath.row]
    names.remove(at: fromIndexPath.row)
    names.insert(tmp, at: to.row)
}
```

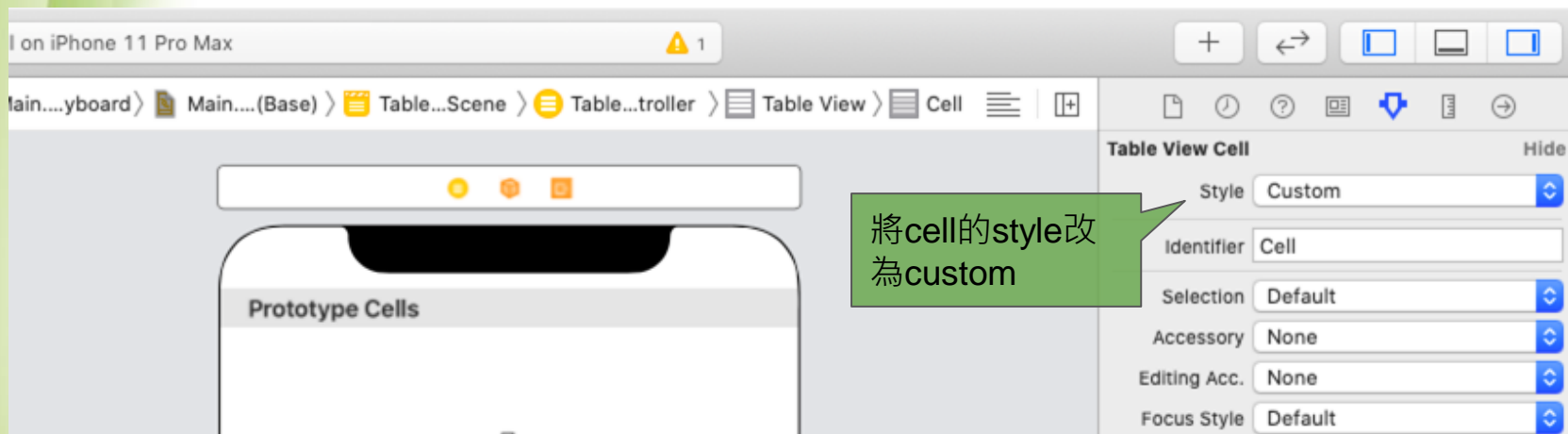
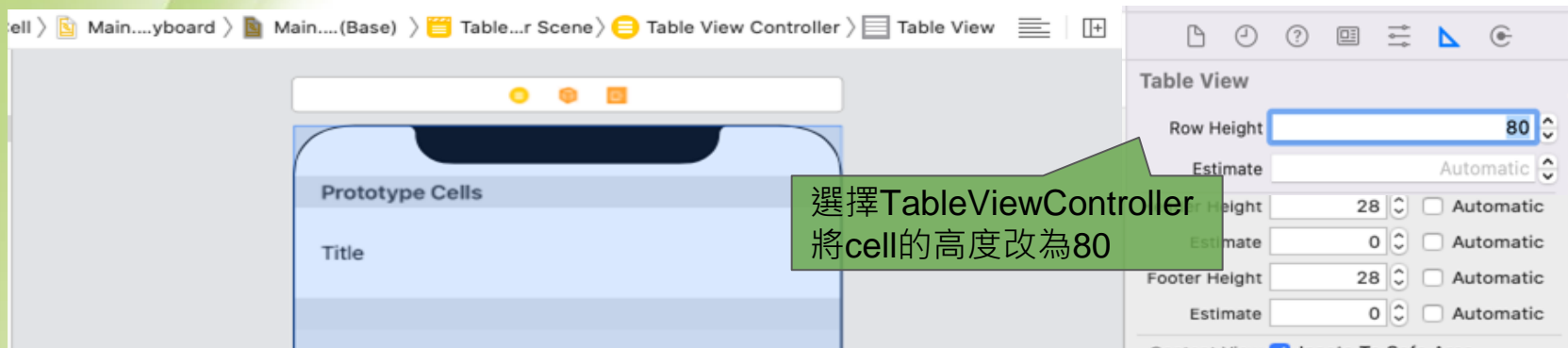
此函式是移動欄位時做的事情這裡是將陣列的元素位置排好

// Override to support conditional rearranging of the table view.

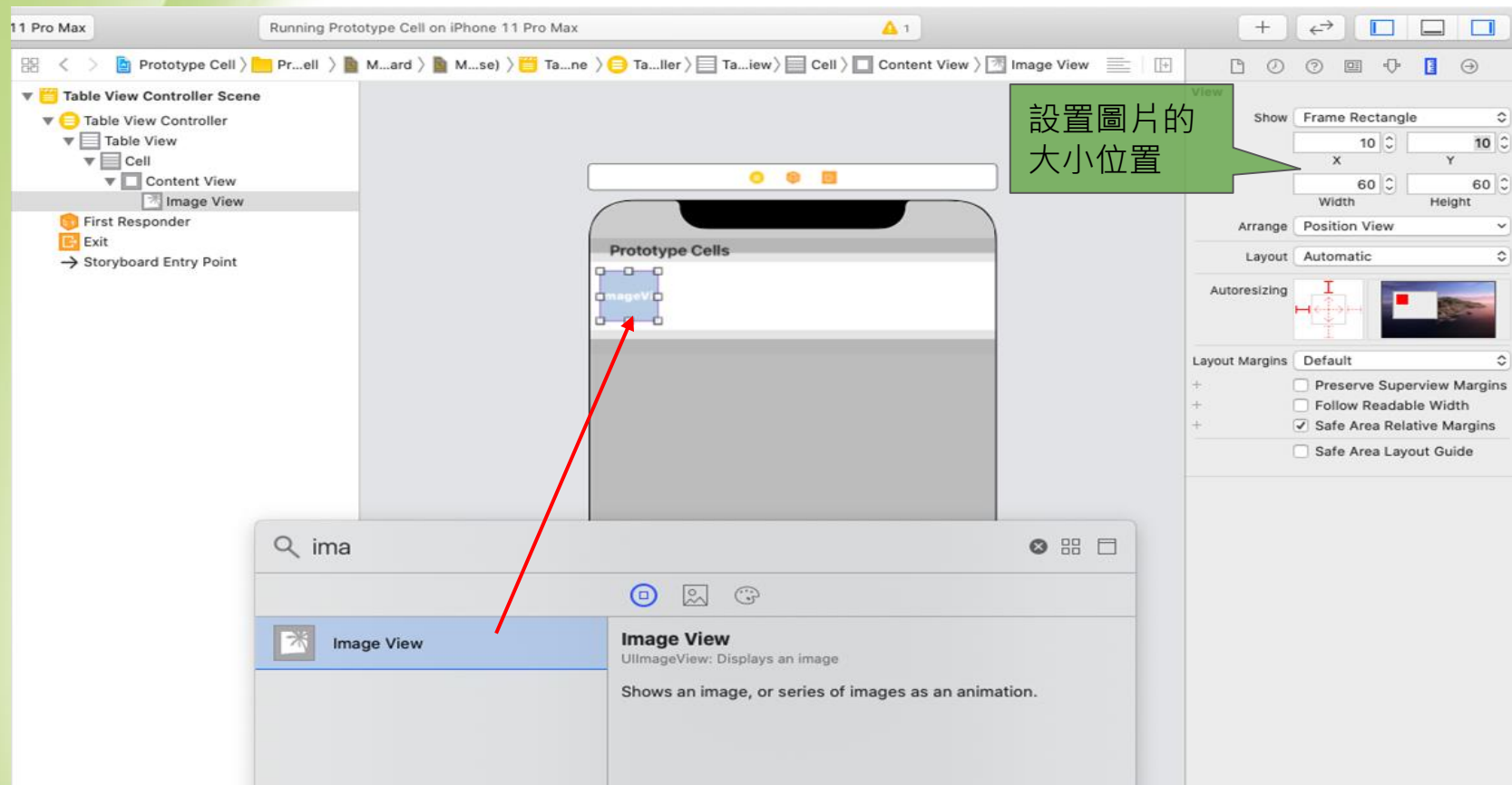
```
override func tableView(_ tableView: UITableView, canMoveRowAt indexPath: IndexPath) -> Bool {
    // Return false if you do not want the item to be re-orderable.
    return true
}
```

是否可以移動欄位

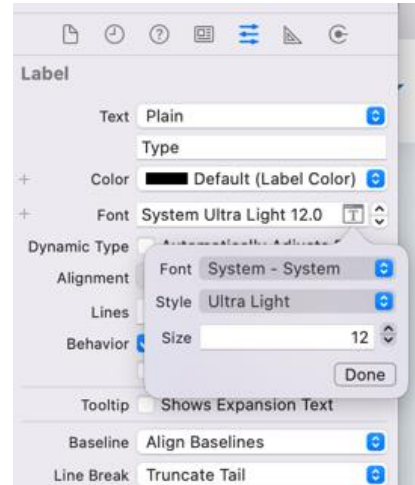
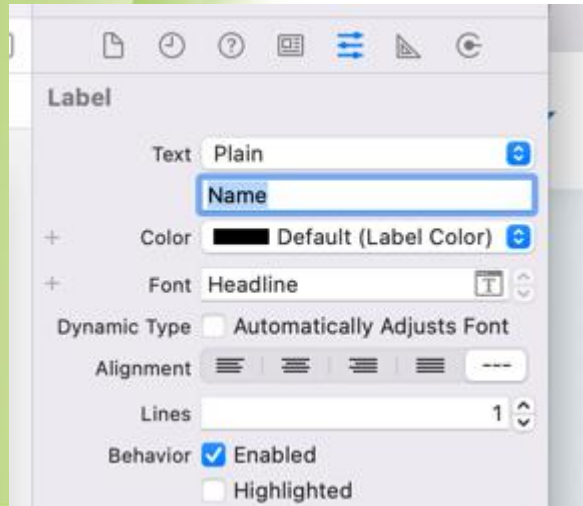
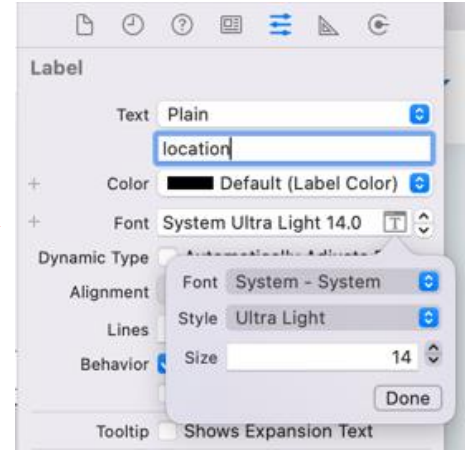
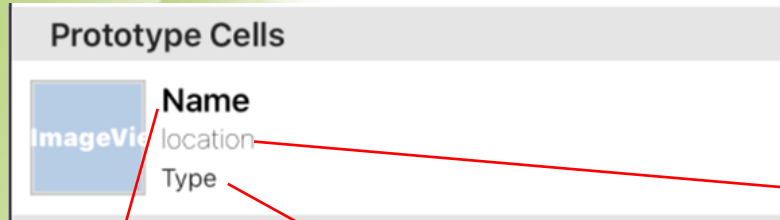
TableViewController



TableViewController



TableViewController



TableViewController

新增新的檔案繼承
UITableViewCell

Running Prototype Cell on iPhone 11 Pro Max

Choose options for your new file:

Class: TableViewCell

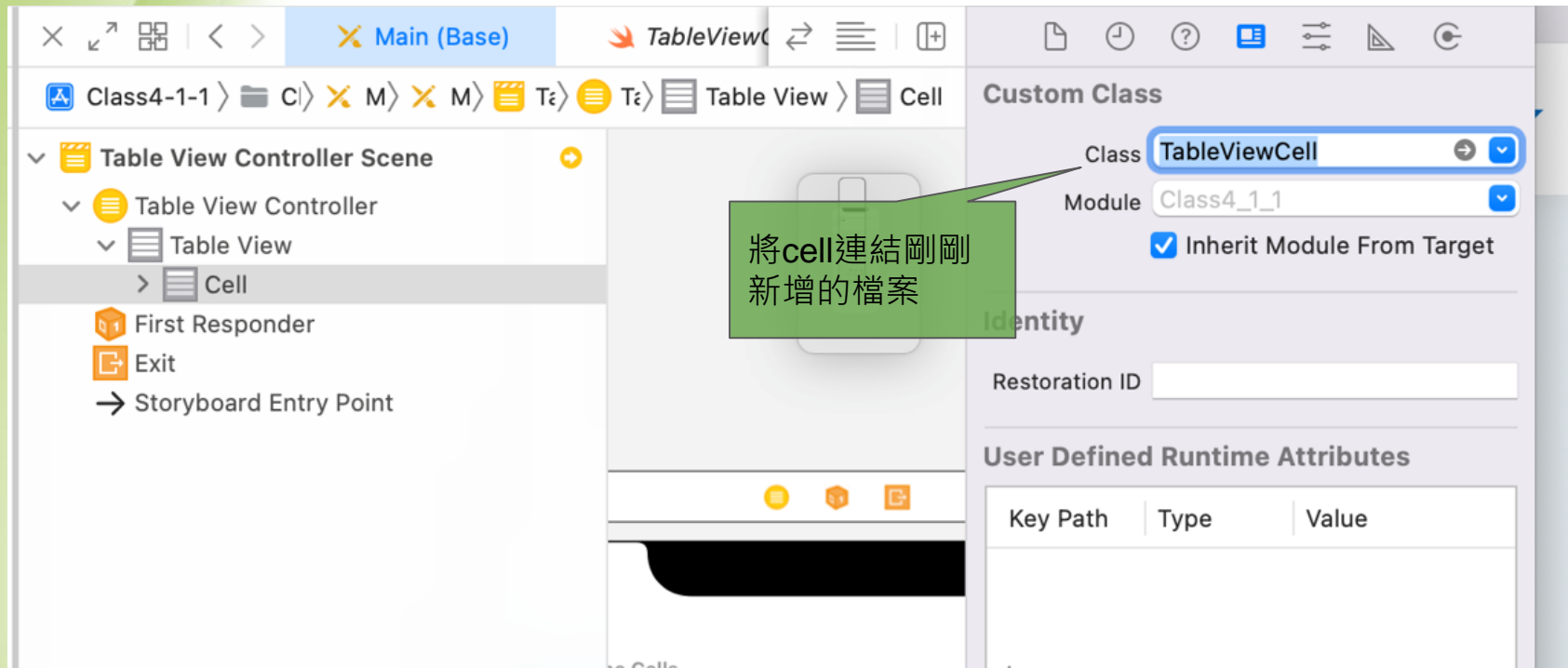
Subclass of: UITableViewController

☐ Also create XIB file

Language: Swift

Cancel Previous Next

TableViewController



TableViewController

```
import UIKit

class TableViewCell: UITableViewCell {
    @IBOutlet weak var thumbnail: UIImageView!
    @IBOutlet weak var nameLabel: UILabel!
    @IBOutlet weak var locaitionLabel: UILabel!
    @IBOutlet weak var typeLabel: UILabel!
}
```

將cell裡的元件連結
到TableViewCell裡面



TableViewController

```
override func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell {  
    let cell = tableView.dequeueReusableCell(withIdentifier: "Cell", for: indexPath) as! TableViewCell  
    cell.nameLabel?.text = names[indexPath.row]  
    cell.thumbnail?.image = UIImage(named: imgs[indexPath.row])  
    return cell  
}
```

取得cell裡
的原件

將cell類別轉成
TableViewCell