



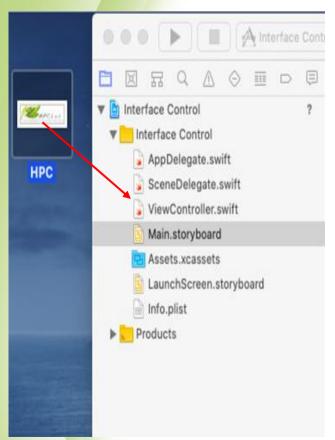


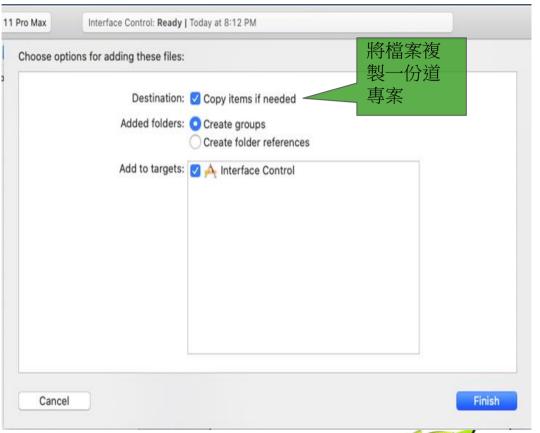
Interface Control

First	Second	
	CLab	
Name		
Number		
0.5		
Symbol	20	
Times New Roman	21	
Times New Roman Zapfino	21 22	

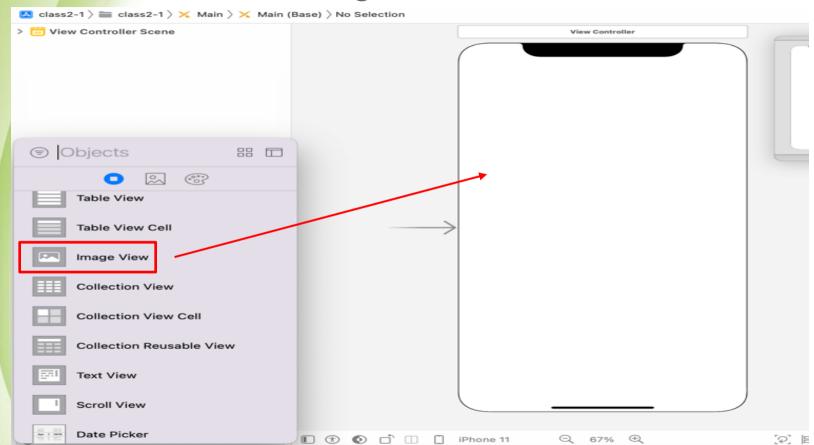




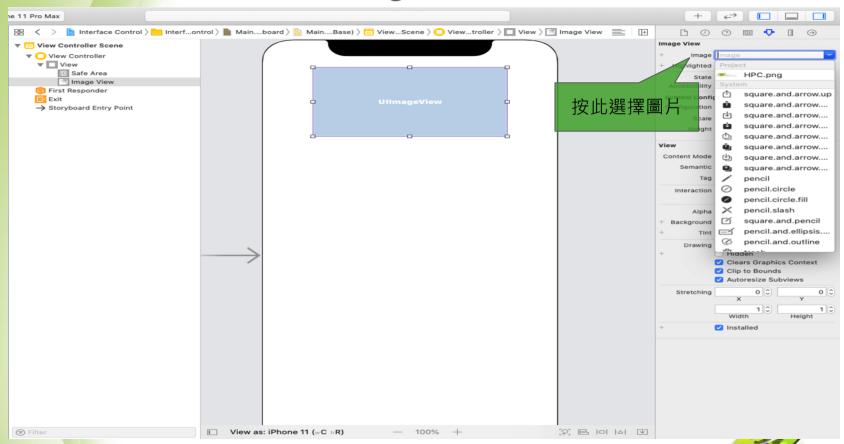




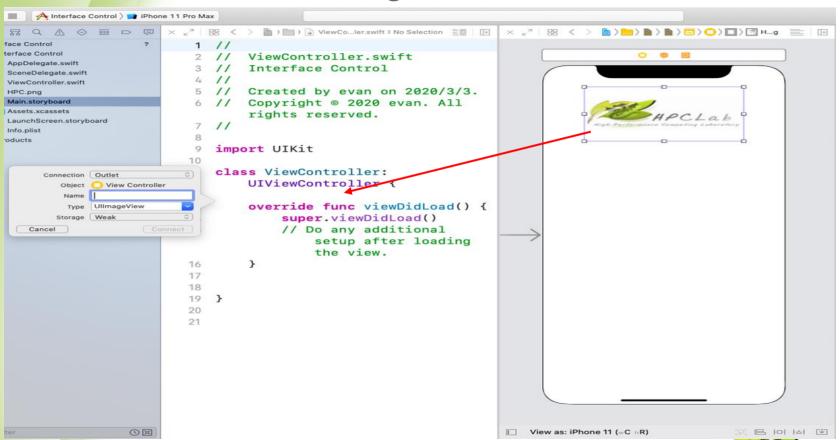












National Taiwan University of Science and Technology



```
import UIKit
   class ViewController: UIViewController {
      @IBOutlet weak var HPC: UIImageView!
      override func viewDidLoad() {
          super.viewDidLoad()
          scaleToFill
                                                Scale To Fill: 放大
scale aspect fit:
                                                圖片讓圖片充滿
                            scaleAspectFit
保持長寬比的原
                                                view
                            scaleAspectFill
則下,放大到其
中一邊達到image
                            scaleToFill: UIView.ContentMode
view的邊緣為止
                            The option to scale the content to fit the size of itself by
              scale aspect fill:
                            changing the aspect ratio of the content if necessary.
               保持長寬比的原
               則下,放大到充
               滿整個 view
```

```
e 11 Pro Max
                    Finished running Interface Control on iPhone 11 Pro Max
                                                                   <u>A</u> 1 • 1
        Interface Control > Interface Control > WiewController.swift > M viewDidLoad()
                                                                                        ■同 田
             ViewController.swift
             class2-1
       //
             Created by nick on 2022/2/14.
        //
    8
       import UIKit
   10
       class ViewController: UIViewController {
   12
                                               在App畫面出
            @IBOutlet weak var HPC: UIIma
   14
            override func viewDidLoad() {
   15
                super.viewDidLoad()
   16
                // Do any additional setup after loading the view.
   17
                HPC.contentMode = .scaleAspectFit
   18
                HPC.image = UIImage(named: "HPC.png")
   19
   20
            }
   21
   22
                                                          須要重載圖片來達
   23
                                                          到設定
   24
   25
```

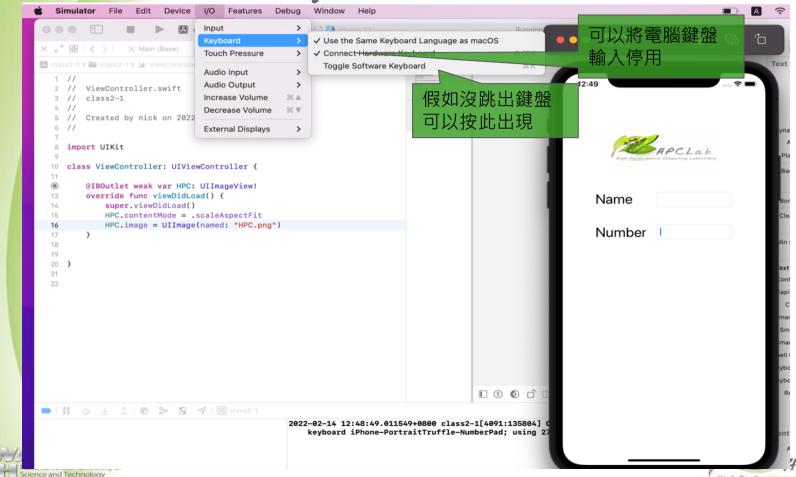


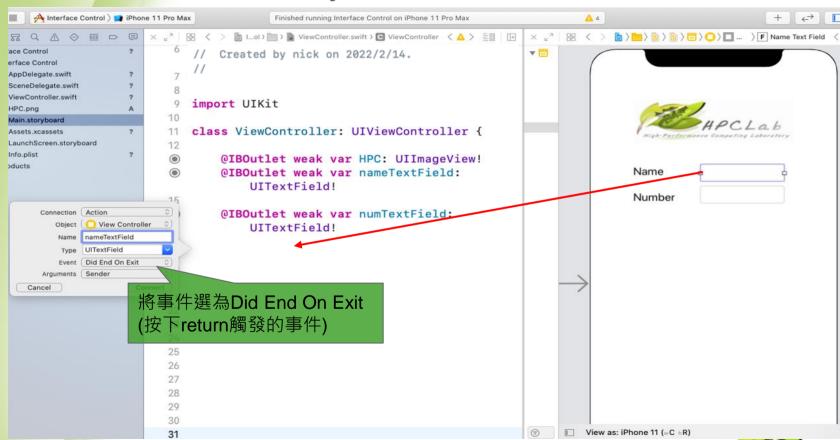














```
import UIKit
10
   class ViewController: UIViewController {
                                              當我們按下nameTextField
                                              時他變為FirstResponder因
                                              此開啟鍵盤
       @IBOutlet weak var HPC: UIImageView!
       @IBOutlet weak var nameTextField: UITextField!
0
       @IBOutlet weak var numTextField: UITextField!
(
       @IBAction func nameTextField(_ sender: UITextField) {
18
           sender.resignFirstResponder()
                              但是數字鍵盤
          將TextField取消
                              沒有return因
          FirstResponder
                              此要使用另一
          因此鍵盤會消失
                              種方法將它縮
```

```
override func touchesEnded(_ touches: Set<UITouch>, with event: UIEvent?) {
    numTextField.resignFirstResponder()
}
```

當點擊事件結束時將 numTextField取消 FirstResponder

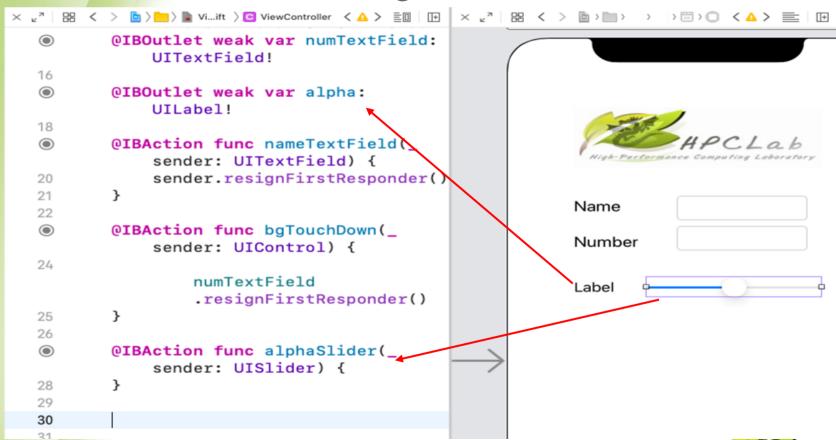


7:43 調整Slider 即可調整圖 片透明度 Name Number 0.3 下午7.

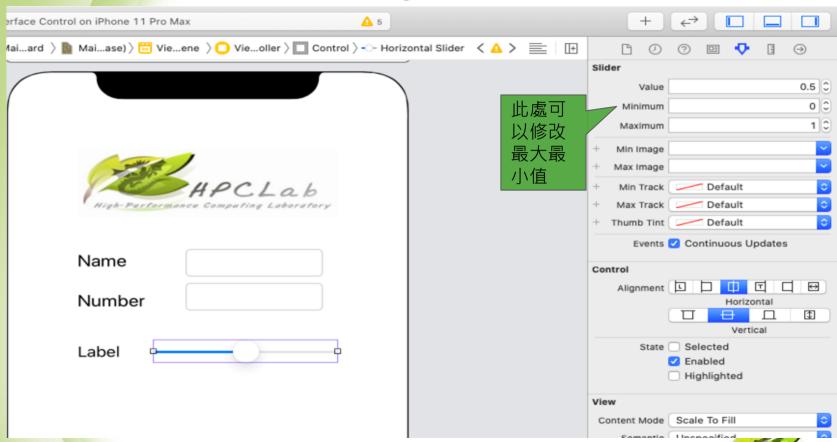
iPhone 11 Pro Max - 13.3









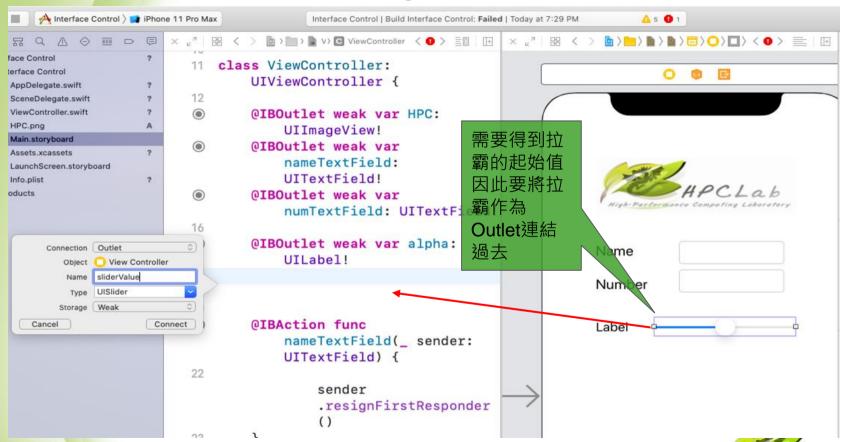


```
12
       @IBOutlet weak var HPC: UIImageView!
       @IBOutlet weak var nameTextField: UITextField!
       @IBOutlet weak var numTextField: UITextField!
16
@IBOutlet weak var alpha: UILabel!
18
@IBAction func nameTextField(_ sender: UITextField) {
           sender.resignFirstResponder()
20
(
       @IBAction func bgTouchDown(_ sender: UIControl) {
           numTextField.resignFirstResponder()
24
25
26
       @IBAction func alphaSlider(_ sender: UISlider) {
alpha.text = String(sender.value)
29
                    當滑動Slider
30
                    時將Label的
```











```
將Label顯示
的數字設為小
數後一位
ender: UI
```

後要再重設

圖片來刷新

@IBAction func alphaSlider(_ sender: UIsander) {
 alpha.text = String(format: "%.1f", sender.value)
 B片的alpha

HPC.alpha = CGFloat(sender.value)

HPC.image = UIImage(named: "HPC.png")

型態轉為
CGFloat
設定alpha値

```
35 override func viewDidLoad() {
36 super.viewDidLoad()
```

// Do any additional setup after loading the在viewDidLoad中 HPC.contentMode = .scaleAspectFit 設定Label的初值

```
39 HPC.image = UIImage(named: "HPC.png")
```

40 alpha.text = String(format: "%.1f", sliderValue.value)
41 }



值為CGFloat

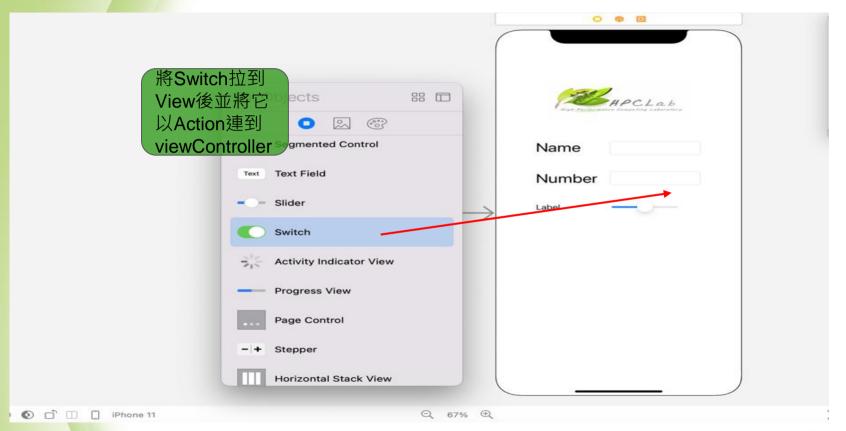
型態因此要將





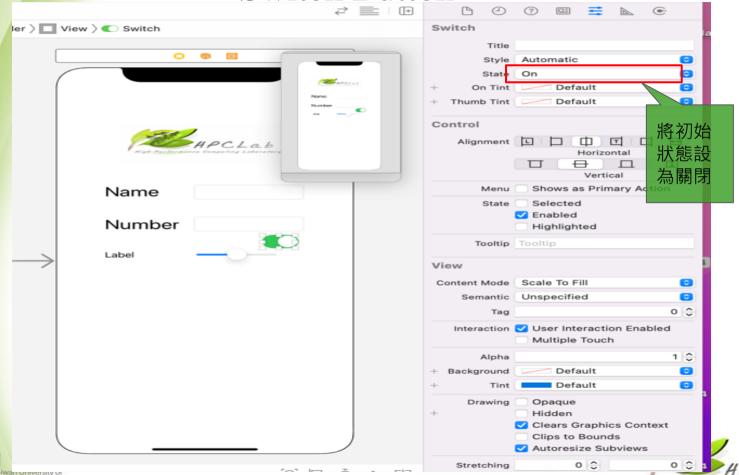










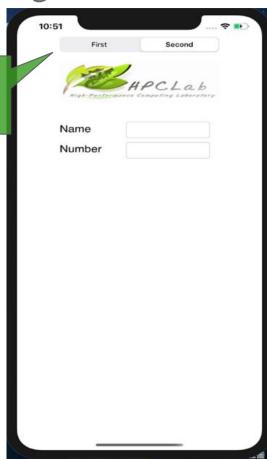


High-Performance Computin

```
@IBAction func secureText(_ sender: UISwitch) {
0
                                                      當按紐設定
          if sender.isOn{
                                                      為開時將數
                                                      字隱藏
              numTextField.isSecureTextEntry = true
           } else {
              numTextField.isSecureTextEntry = false
                                               當按紐設定
                                               為關時顯示
                                               數字
42
```

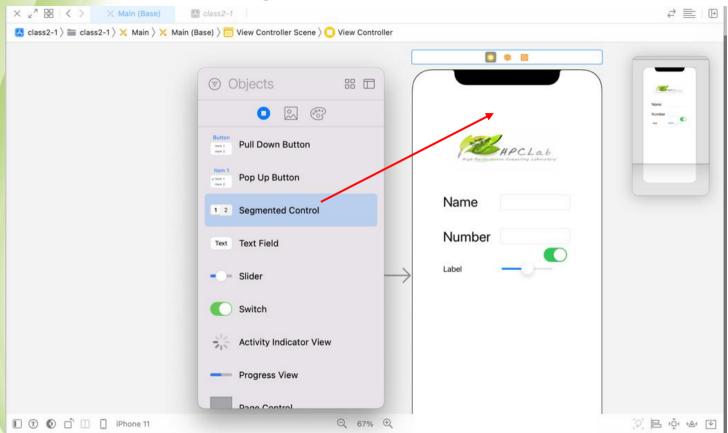


切換Segmented 來達到顯示或隱 藏其他元件











```
@IBOutlet weak var HPC: UIImageView!
@IBOutlet weak var numberTextField: UITextField!
@IBOutlet weak var nameTextField: UITextField!
@IBOutlet weak var alpha: UILabel!
@IBOutlet weak var sliderValue: UISlider!
@IBOutlet weak var 'switch': UISwitch!
@IBOutlet weak var slider: UISlider!
```







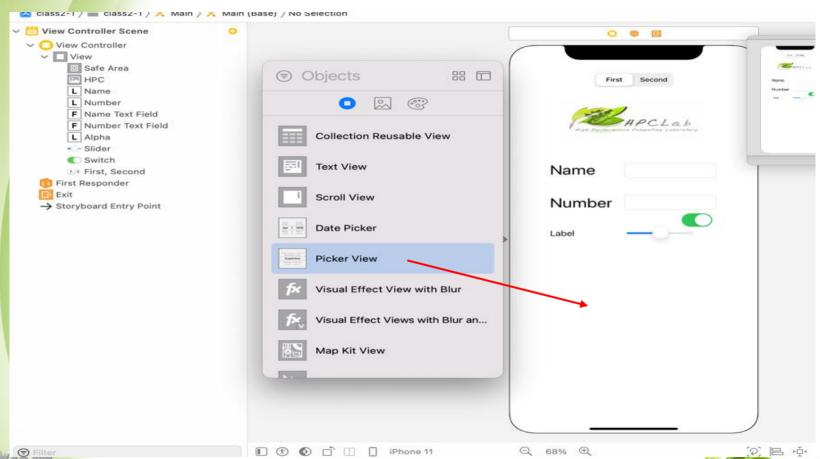
```
Interface Control > Interface Control > ViewController.swift > ViewController
                                                                           < A > =0
            III O. IIII G - OII III G C (IIIII C . III O. PIIG /
37
38
(
        @IBAction func secureText(_ sender: UISwitch) {
            if sender.isOn{
                 numTextField.isSecureTextEntry = true
            } else {
                numTextField.isSecureTextEntry = false
43
44
45
46
       @IBAction func segmentCtrl(_ sender: UISegmentedControl) {
(
            if sender.selectedSegmentIndex == 0{
49
                 slider.isHidden = false
                 `switch`.isHidden = false
50
                 alpha.isHidden = false
52
            } else {
                                                    當選擇第
                 slider.isHidden = true
                                                      -頁時將
                 `switch`.isHidden = true
54
                                                    元件顯示,
                 alpha.isHidden = true
                                                    選擇第二
56
                                                    頁時隱藏
                                                    元件
```

First	Second	
HISTO PACELLARING COM	CLab	
Name		
Number		
0.5	<u> </u>	
Symbol	20	4
Symbol Times New Roman	20 21	4
		4
Times New Roman Zapfino	21 22	
Times New Roman Zapfino	21 22	4
Times New Roman Zapfino	21 22	4
Times New Roman Zapfino	21 22	4

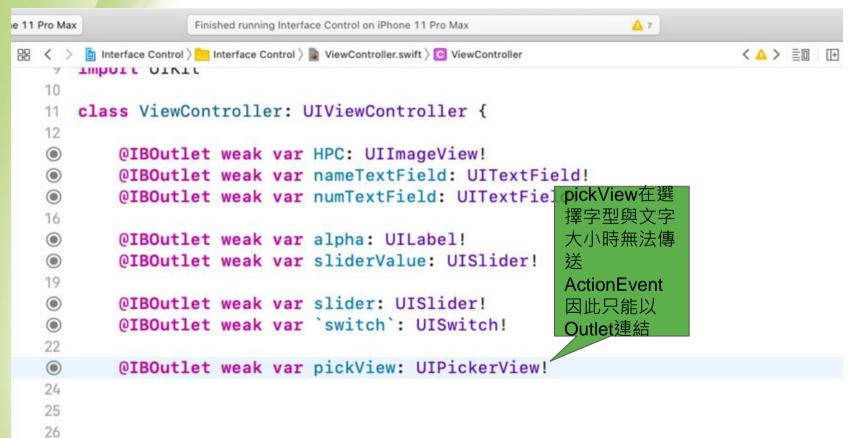
左邊選擇 字型右邊 選擇文字 大小



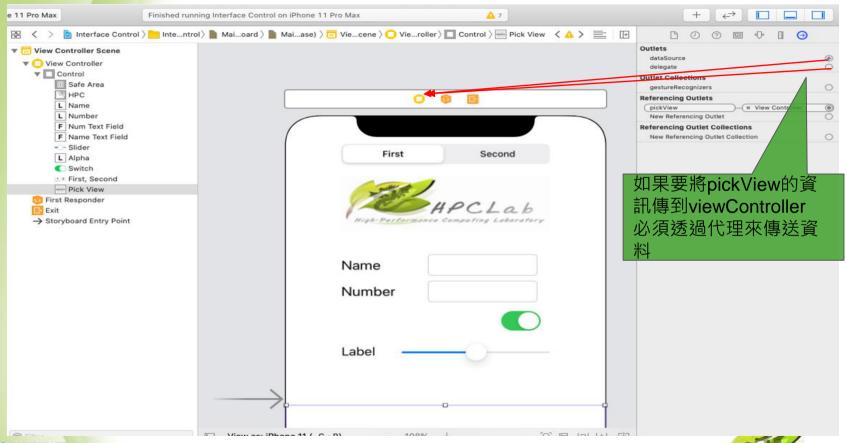




High-Performance Computing Laboratory

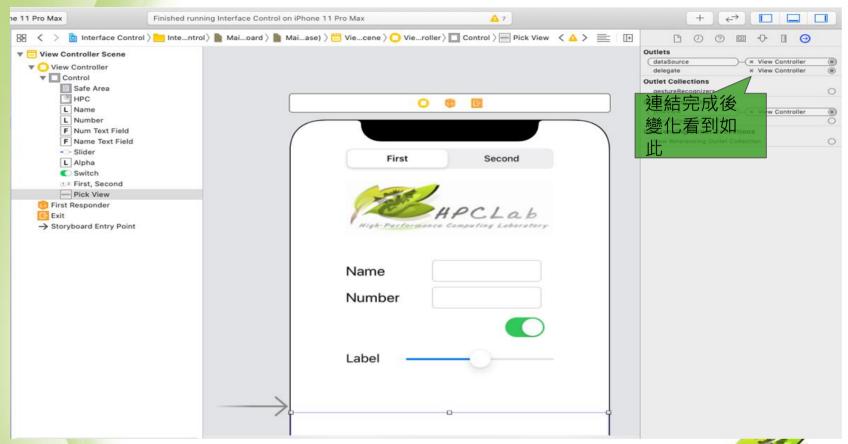
















```
Class2-1 \( \) \( \) \( \) class2-1 \( \) \( \) \( \) ViewController \( \) \( \) ViewController
                                                            viewController
         ViewController.swift
                                                                                                               class2-1
                                                            必須要繼承
                                                            pickerView的協
         Created by nick on 2022/2/14.
                                                            定才能與
                                                            pickerView連結
     import UIKit
     class ViewController: UIViewController, UIPickerViewDataSource, UIPickerViewDelegate {
  11

    Type 'ViewController' does not conform to protocol

         @IBOutlet weak var HPC: UIImageView!
                                                            'UIPickerViewDataSource'
         @IBOutlet weak var numberTextField: UITextField
                                                            Do you want to add protocol stubs?
         @IBOutlet weak var nameTextField: UITextField!
         @IBOutlet weak var alpha: UILabel!
         @IBOutlet weak var sliderValue: UISlider!
                                                                                  當我們繼承完
         @IBOutlet weak var 'switch': UISwitch!
                                                                                  時會要求必須
         @IBOutlet weak var slider: UISlider!
  19
                                                                                  要實作協定的
         @IBOutlet weak var pickview: UIPickerView!
                                                                                  某些函式,我
                                                                                  們可以按下Fix
  (0)
         @IBAction func nameTextField(_ sender: UITextField) {
  23
             sender.resignFirstResponder()
                                                                                  來看到要實作
                                                                                  哪些函式
```

```
Class2-1 \( \) \( \) class2-1 \( \) \( \) \( \) ViewController \( \) \( \) ViewController
   1 //
           ViewController.swift
           class2-1
                          ck on 2022/2/14.
           上面的函
   9
                   controller: UIViewController,UIPickerViewDataSource,UIPickerViewDelegate {
           func numberOfComponents(in pickerView: UIPickerView) -> Int {
  11
  12
               code
           }
  13
  14
           func pickerView(_ pickerView: UIPickerView, numberOfRowsInComponent component: Int) -> Int {
  15
  16
  17
           }
   18
   19
                    下面的函式
           @IBOu
                                      UIImageView!
  (0)
  (0)
           @IBOu
                                      rTextField: UITextField!
                                      extField: UITextField!
  (
           @IBOu
  (0)
           @IBOu
                                      : UILabel!
  (0)
                                      rValue: UISlider!
           @IBOut
                                      ch': UISwitch!
           @IBOutlet weak var slider: UISlider!
  27
  (1)
           @IBOutlet weak var pickview: UIPickerView!
  29
  (1)
           @IBAction func nameTextField(_ sender: UITextField) {
  31
               sender.resignFirstResponder()
   National Talwan University of 
Science and Technology
```



```
先將每欄的
       import UIKit
                                 選項以字串
                                 陣列宣告出
        class ViewController: UIView
                                              kerViewDataSource,UIPickerViewDelegate {
           let fontName = ["Symbol", "Times New Roman", "Zapfino", "Chalkduster"]
           let fontSize = ["20","21","22","23","24","25","26"]
           var currentSize:CGFloat = 20.0
回傳2代
           func numberOfComponents(in pickerView: UIPickerView) -> Int {
表有兩欄
                 return 2
的選項
                                      component用
                                      來決定是哪一
    20
                                       欄要回傳多少
           func pickerView(_ pickerVi
                                                     erOfRowsInComponent component: Int) -> Int {
                                       選項
              if(component == 0){
                  return fontName.count
                                         如果是第-
                                         欄便回傳字
              return fontSize.count
                                         型陣列有幾
                                         個元素
                      count來統計
                      陣列有多少
```

元素







```
func pickerView(_ pickerView: UIPickerView, titleForRow row: Int, forComponent component:
    Int) -> String? {
    if(component == 0){
        return fontName[row]
    }
    return fontSize[row]
$\frac{\pi-\sqrt{n}_0}{\pi}$
```

第一列回字型的陣列·row是目前選到選項的index



```
func pickerView(_pickerView: UIPickerView, didSelectRow row: Int, inComponent component:
   Int) {
                                                                            當更改第
   if component == 0 {
                                                                            一欄的選
       name.font = UIFont(name:fontName[row], size:currentSize)
                                                                            項時將字
       number.font = UIFont(name:fontName[row], size:currentSize)
                                                                            型修改,
                                                                            因為不能
   } else { ___ 請自行在viewController宣告currentSize此變數
                                                                            只設定字
       currentSize = CGFloat(Double(fontSize[row])!)
                                                                            型因此用
       name.font = name.font.withSize(CGFloat(Double(fontSize[row])!))
                                                                              個變數
       number.font = number.font.withSize(CGFloat(Double(fontSize[row])!))
                                                                            來記錄文
                                                                            字大小
   這個函示
```



更改第二欄選 項時將字型大 小修改並記錄 修改完的大小

字串要轉 CGFloat要 先轉為 Double



