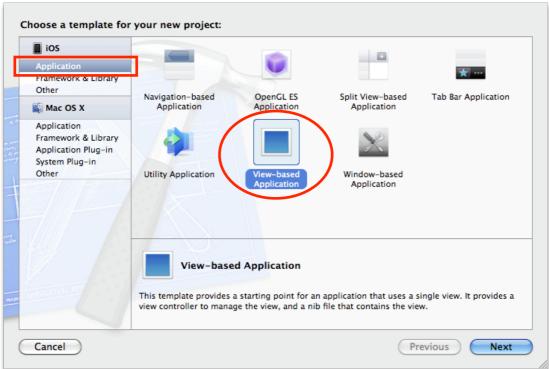
Lab SimpleGesture

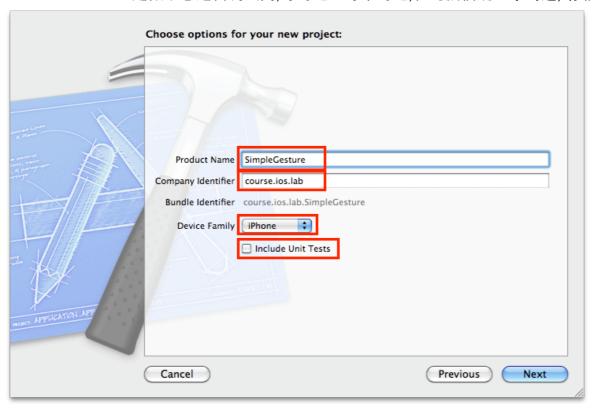
Step 1. 在File>New>New Project開啟一個新的專案, 在iOS的Application目錄裡面選擇 view based application



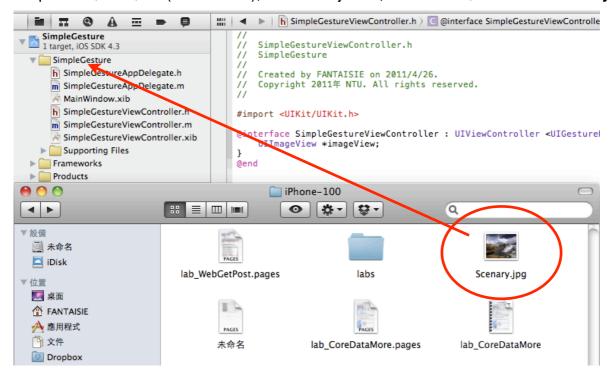
Step 2. 並將此專案命名為 SimpleGesture

Company Identifier是填入Bundle的名稱,在此統一填入course.ios.lab (也可自行填入) Device Family選擇iPhone

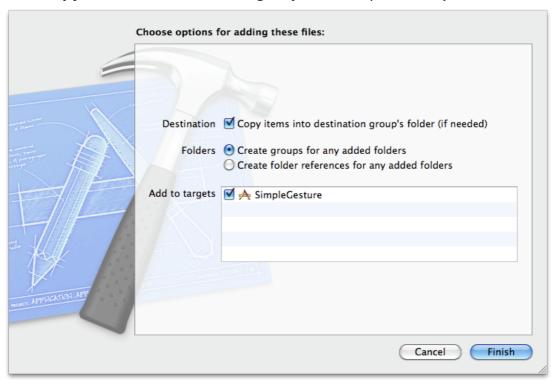
Include Unit Tests是做語意邏輯測試用,可勾選也可不勾選,在此我們統一不勾選,存檔



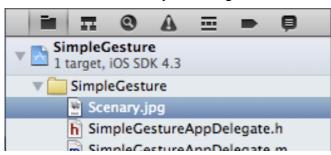
Step 3. 選擇一個圖檔(解析度任意), 拖拉到Project內, 在此我們的圖檔檔名為Scenary.jpg



勾選 Copy items into destination group's folder (if needed)



圖檔出現在我們的 Project Navigator 中



```
#import <UIKit/UIKit.h>
@interface SimpleGestureViewController : UIViewController {
    UIImageView *imageView;
}
- (void)handleRotationFrom:(UIRotationGestureRecognizer *)recognizer;
- (void)handlePinchFrom:(UIPinchGestureRecognizer *)recognizer;
@end
Step 5. 開啓 SimpleGestureViewController.m, 找到 - (void)ViewDidLoad 然後把Mark去掉,
加入下面的程式去為我們ViewController的view去增加兩個UIGestureRecognizer, 去執行兩
個不同的method, 然後將我們的imageView做初始化, 包括設定frame, source, 位置, 最後加
到我們的view裡面成為一個subView
注意:
imageView.image = [UIImage imageNamed:@"Scenary.jpg"]; 裡的@"Scenary.jpg
要使用你自己加入的圖檔名稱
- (void)viewDidLoad
    [super viewDidLoad];
    UIGestureRecognizer *recognizer;
    recognizer = [[UIRotationGestureRecognizer alloc]
initWithTarget:self action:@selector(handleRotationFrom:)];
    [self.view addGestureRecognizer:recognizer];
    [recognizer release];
    recognizer = [[UIPinchGestureRecognizer alloc] initWithTarget:self
action:@selector(handlePinchFrom:)];
    [self.view addGestureRecognizer:recognizer];
    [recognizer release];
    imageView = [[UIImageView alloc] initWithFrame:CGRectMake(0.0, 0.0,
150.0, 150.0)];
    imageView.image = [UIImage imageNamed:@"Scenary.ipg"];
    imageView.center = self.view.center;
    [self view addSubview:imageView];
    [imageView release];
}
Step 6. 找到 - (void) dealloc 然後在這裡在dealloc時將我們的imageView做release
- (void)dealloc
{
    [imageView release];
    [super dealloc];
}
```

Step 7. 實作Rotate和Pinch時會執行的兩個method, 主要是使用 CGAffineTransform 去依照recognizer所認到的行為或參數值去改變imageView的屬性和顯示,後面beginAnimations到commitAnmations是在手指(鼠標)放開後在一秒內回復到原來imageView的呈現方式, 如果將整段Mark掉的話imageView就會保留在因為Rotation或是Pinch而更改後的狀態

- (void)handleRotationFrom:(UIRotationGestureRecognizer *)recognizer { imageView.transform = CGAffineTransformMakeRotation([recognizer rotation]); [UIView beginAnimations:nil context:NULL]; [UIView setAnimationDuration:1]; imageView.transform = CGAffineTransformIdentity; [UIView commitAnimations]; } - (void)handlePinchFrom:(UIPinchGestureRecognizer *)recognizer{ imageView.transform = CGAffineTransformMakeScale(recognizer.scale, recognizer.scale); [UIView beginAnimations:nil context:NULL]; [UIView setAnimationDuration:1]; imageView.transform = CGAffineTransformIdentity; [UIView commitAnimations]; }

Step 12. Run (第+R) 使用option(alt)加滑鼠(觸控版)就可模擬兩指Rotate(不改變兩點距離)和Pinch(縮放)的功能



