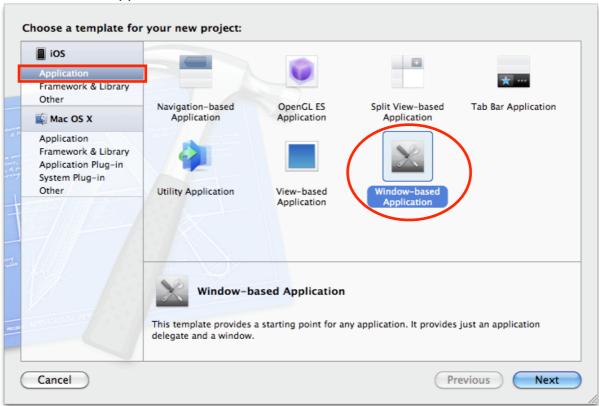
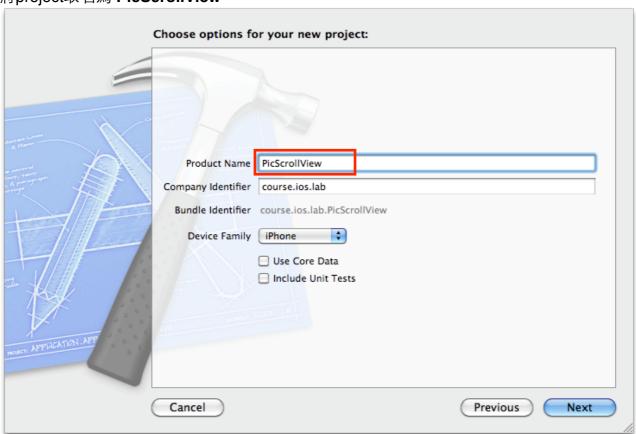
## Lab PicScrollView

Step 1. 在File>New>New Project開啓一個新的專案, 在iOS的Application目錄裡面選擇 Window-based application



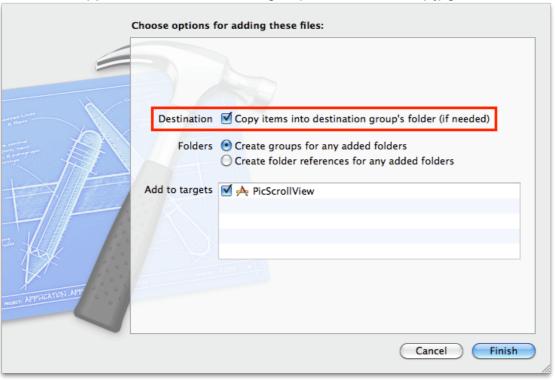
## 將project取名為 PicScrollView

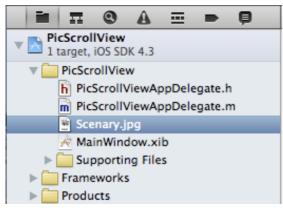


Step 2. 随意找尋一張size大於iPhone [UIScreen mainScreen].applicationFrame.size



記得勾選 Copy items into destination group's folder, Scenary.jpg 就出現在我們專案裡了





```
Step 3. 在 PicScrollViewAppDelegate.h 裡加入 <UIScrollViewDelegate> 來遵循
UIScrollViewDelegate 這個 protocol,並宣告一些我們會使用到的物件
#import <UIKit/UIKit.h>
@interface PicScrollViewAppDelegate : NSObject <UIApplicationDelegate,</pre>
UIScrollViewDelegate> {
    UIScrollView *myScrollView;
    UIView *myContentView;
    UIImageView *myImageView;
    UIImage *myImage;
}
@property (nonatomic, retain) IBOutlet UIWindow *window;
@end
Step 4. 在 PicScrollViewAppDelegate.m 裡的
- (BOOL)application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions{}
實作我們的myScrollView、判斷Scale的 myContentView、以及作為圖像顯示的
myImageView
注意: 程式碼裡面myImage = [UIImage imageNamed:@"Scenary.jpg"];裡的
Scenary.jpa 要寫入你自己剛加入專案的圖片檔名稱
- (BOOL)application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
{
    // Override point for customization after application launch.
    myScrollView = [[UIScrollView alloc] initWithFrame:[UIScreen
mainScreen].applicationFrame];
    myScrollView.backgroundColor = [UIColor blackColor];
    myScrollView.delegate = self;
    myScrollView.bouncesZoom = YES;
    myImage = [UIImage imageNamed:@"Scenary.jpg"];
    CGRect myFrame = CGRectMake(0, 0, myImage.size.width,
myImage size height);
    myImageView = [[UIImageView alloc] initWithFrame:myFrame];
    myImageView.image = myImage;
    myContentView = [[UIView alloc] initWithFrame:CGRectMake(0, 0,
myImage.size.width, myImage.size.height)];
    myScrollView.contentSize = myContentView.frame.size;
    myScrollView.minimumZoomScale = myScrollView.frame.size.width /
myImage.size.width;
    myScrollView.maximumZoomScale = 1.0;
```

```
[myContentView addSubview:myImageView];
    [myScrollView addSubview:myContentView];
    [self.window addSubview:myScrollView];
    [myImageView release];
    [myContentView release];
    [myScrollView release];
   [self.window makeKeyAndVisible];
   return YES;
}
myScrollView = [[UIScrollView alloc] initWithFrame:[UIScreen
mainScreen].applicationFrame];
myScrollView.backgroundColor = [UIColor blackColor];
myScrollView.delegate = self;
myScrollView.bouncesZoom = YES;
我們開啓與mainScreen Frame同大小的ScrollView、將背景設為黑色、並委任
<UIScrollViewDelegate> 這個protocol, 把Zooming時bounce設為YES
myImage = [UIImage imageNamed:@"Scenary.jpg"];
    CGRect myFrame = CGRectMake(0, 0, myImage.size.width,
myImage.size.height);
myImageView = [[UIImageView alloc] initWithFrame:myFrame];
myImageView.image = myImage;
這邊是加入我們的圖檔成為一個ImageView
myContentView = [[UIView alloc] initWithFrame:
    CGRectMake(0, 0, myImage.size.width, myImage.size.height)];
myScrollView.contentSize = myContentView.frame.size;
myScrollView.minimumZoomScale = myScrollView.frame.size.width /
myImage.size.width;
myScrollView.maximumZoomScale = 1.0;
這邊是把每次Zooming後更新的Scale的View作初始化
然後把更新的myContentView給ScrollView, 並設定Zooming最小Fit ScrollView
的大小, 最大顯示原圖的大小
[myContentView addSubview:myImageView];
[myScrollView addSubview:myContentView];
[self.window addSubview:myScrollView];
[myImageView release];
[myContentView release];
[myScrollView release];
最後作addSubView和release的動作,避免Memory Leak
```

Step 5. 同樣在 PicScrollViewAppDelegate.m 裡加入viewForZoomingInScrollview去知道View的Scaling

```
-(UIView *)viewForZoomingInScrollView:(UIScrollView *)myScrollView
{
    return myContentView;
}
```

Step 6. Run (第+R) 原來預設是顯示原圖大小 可拖拉到圖片各個位置 使用 option(alt) + 滑鼠左鍵 可相當於兩點觸碰 最後可 Fit the main screen



