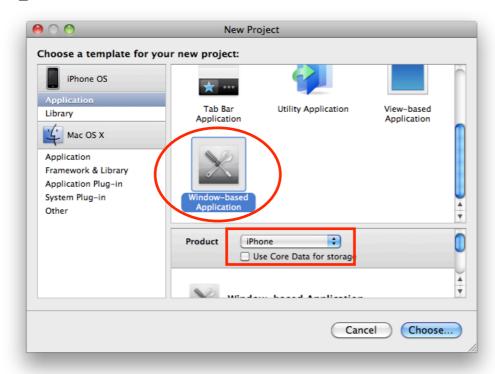
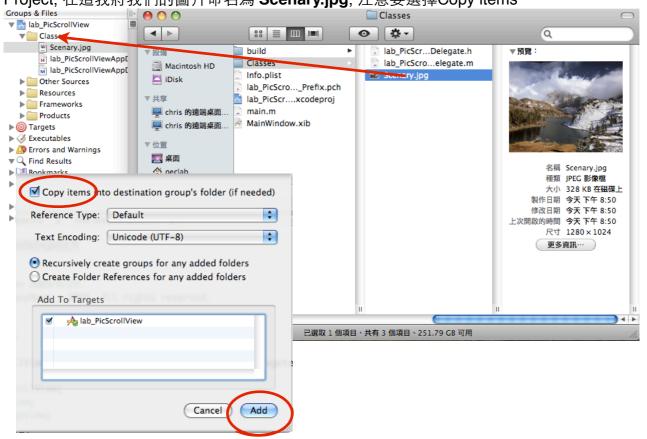
## Lab PicScrollView

Step1. 在File開啟一個新的project, 選擇 Window-Based Application, 將project取名為 lab\_PicScrollView



## Step2. 隨意找尋一張size大於iPhone

[UIScreen mainScreen].applicationFrame.size = 320x480 的圖片並加入我們的 Project, 在這我將我們的圖片命名為 Scenary.jpg, 注意要選擇Copy items



Step3. 在 lab\_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 lab_PicScrollViewAppDelegate : NSObject
<UIApplicationDelegate,UIScrollViewDelegate> {
     UIWindow *window;
     UIScrollView *myScrollView;
     UIView *myContentView;
     UIImageView *myImageView;
     UIImage *myImage;
}
@property (nonatomic, retain) IBOutlet UIWindow *window;
@end
Step4. 在 lab 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.jpg 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];
   [window addSubview:myScrollView];
   [myImageView release];
   [myContentView release];
   [myScrollView release];
```

[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)];
這邊是把每次Zooming後更新的Scale的View作初始化
myScrollView.contentSize = myContentView.frame.size;
myScrollView.minimumZoomScale = myScrollView.frame.size.width /
myImage.size.width;
myScrollView.maximumZoomScale = 1.0;
這邊是把更新的ContentView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];
[window addSubview:myScrollView];
[myImageView release];
[myContentView release];
[myScrollView release];
最後作addSubView和release的動作,避免Memory Leak
Step5. 在 lab_PicScrollViewAppDelegate.m 裡加入viewForZoomingInScrollview
去知道View的Scaling
-(UIView *)viewForZoomingInScrollView:(UIScrollView *)myScrollView
{
    return myContentView;
}
```

Step6. Simulation (command + enter) 原來預設是顯示原圖大小



使用單鍵(相當於單點觸碰)可以拉到整張圖片的各個位置



使用 option(alt) + 滑鼠左鍵 可相當於兩點觸碰



Fit the main screen

