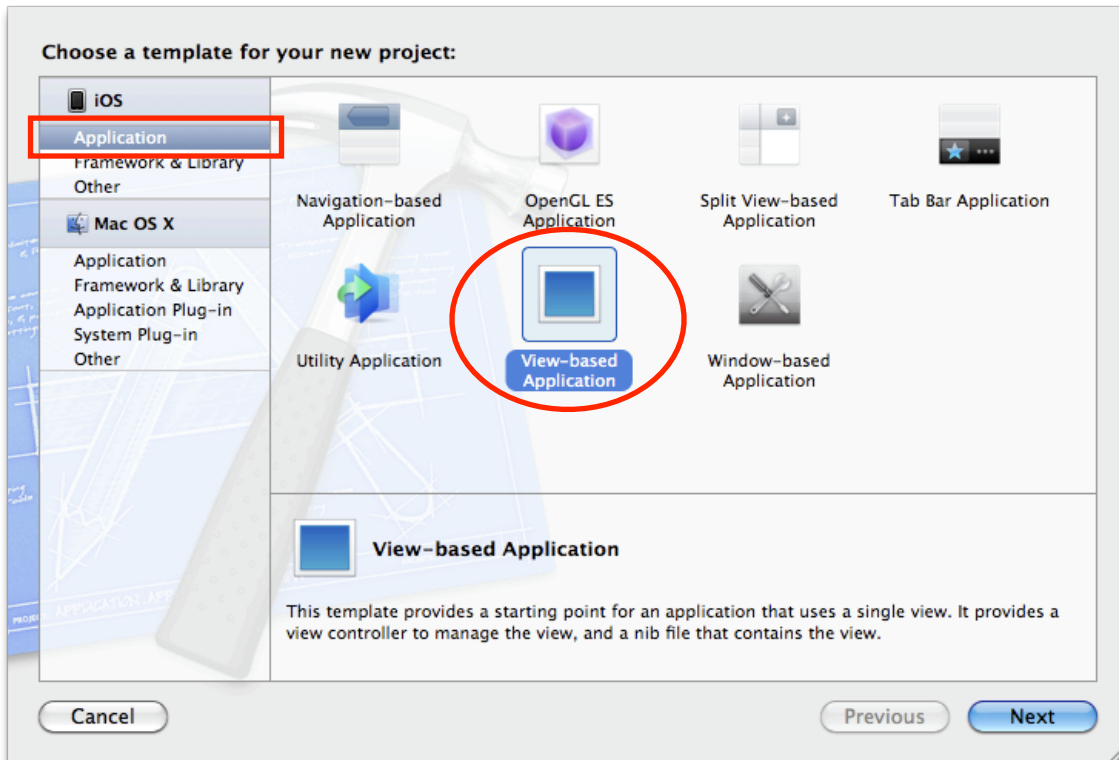
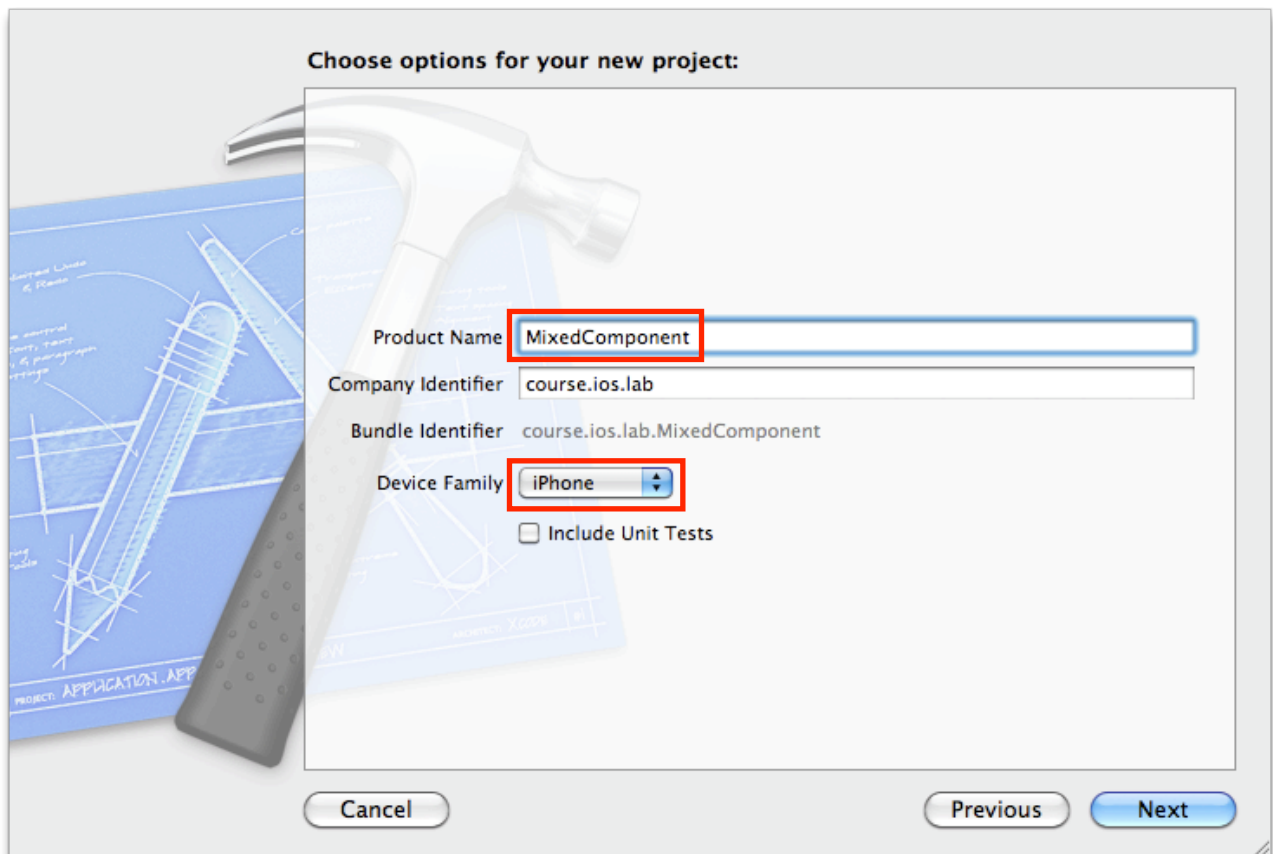


# Lab MixedComponent

Step 1. 在 File>New>New File 開啓一個新的project, 選擇 View-based application



將project命名為 MixedComponent

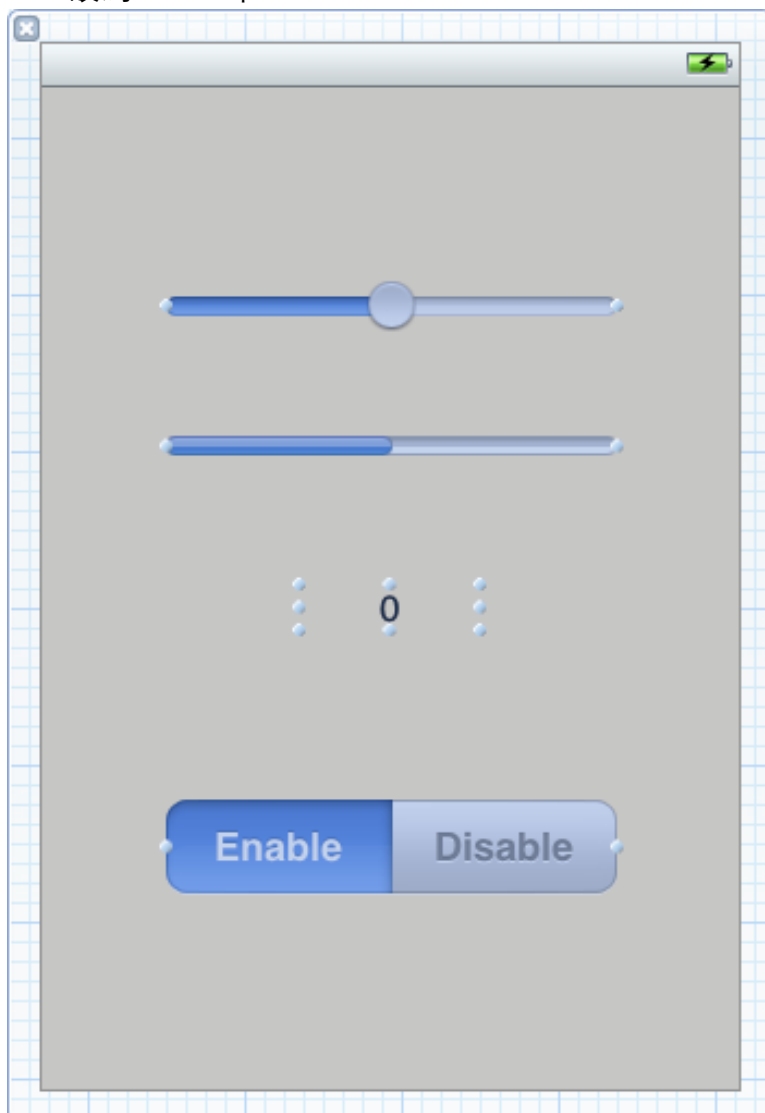


Step 2. 開啓 MixedComponentViewController.h, 加入一個UISlider來拖拉, 一個UIProgressView來跟著UISlider變化, 一個UILabel來顯示目前Slider變化後的數值,以及一個UISegmentedControl去做開關來Enable以及Disable, 以及一個tempValue負責在重新Enable時將值重新設定為之前的值, 以及兩個對應Slider和SegmentedControl的IBAction

```
#import <UIKit/UIKit.h>
```

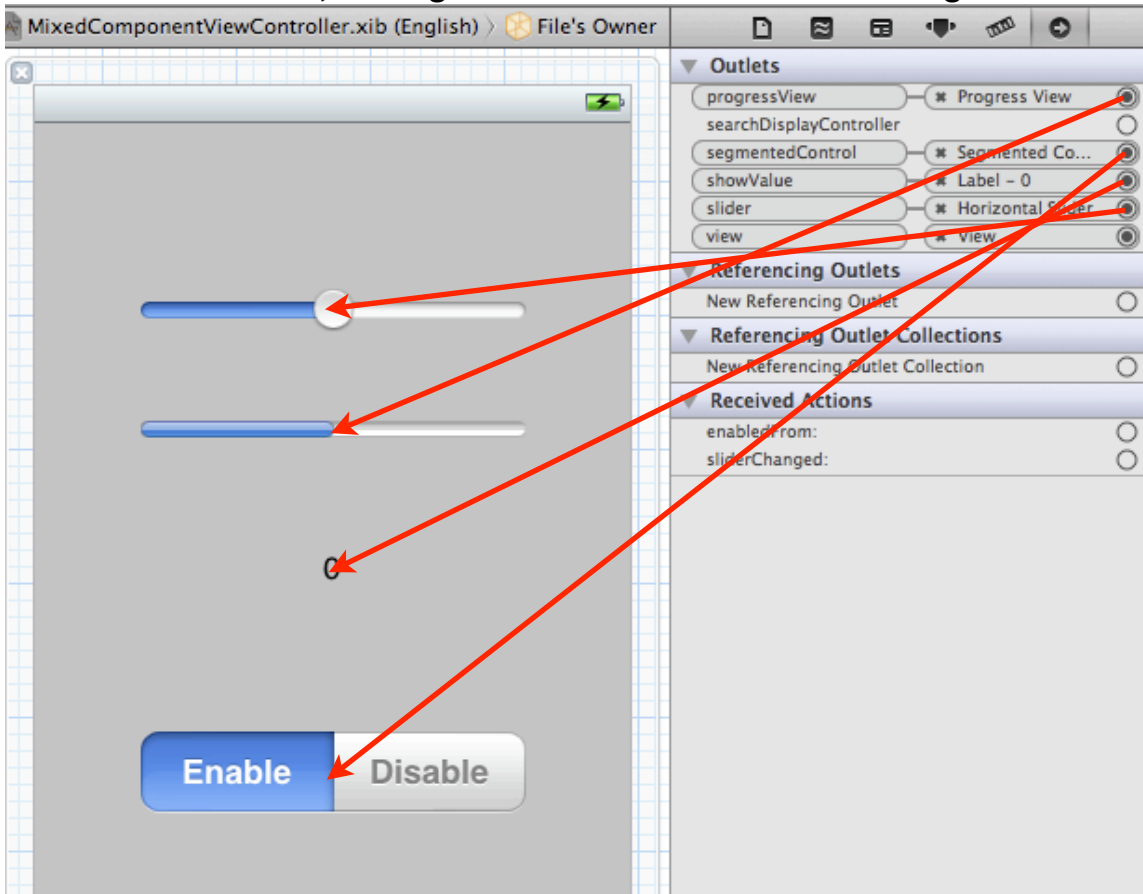
```
@interface MixedComponentViewController : UIViewController {
    IBOutlet UISlider *slider;
    IBOutlet UIProgressView *progressView;
    IBOutlet UILabel *showValue;
    IBOutlet UISegmentedControl *segmentedControl;
    float tempValue;
}
-(IBAction)sliderChanged:(UISlider *)aSlider;
-(IBAction)enabledFrom:(UISegmentedControl *)aSegmentedControl;
@end
```

Step 3. 開啓 MixedComponentViewController.xib, 上方依序放入一個UISlider, 一個UIProgressView, 一個UILabel(將Text設為0), 以及一個UISegmentedControl將兩個Button的Title設為Enable和Disable

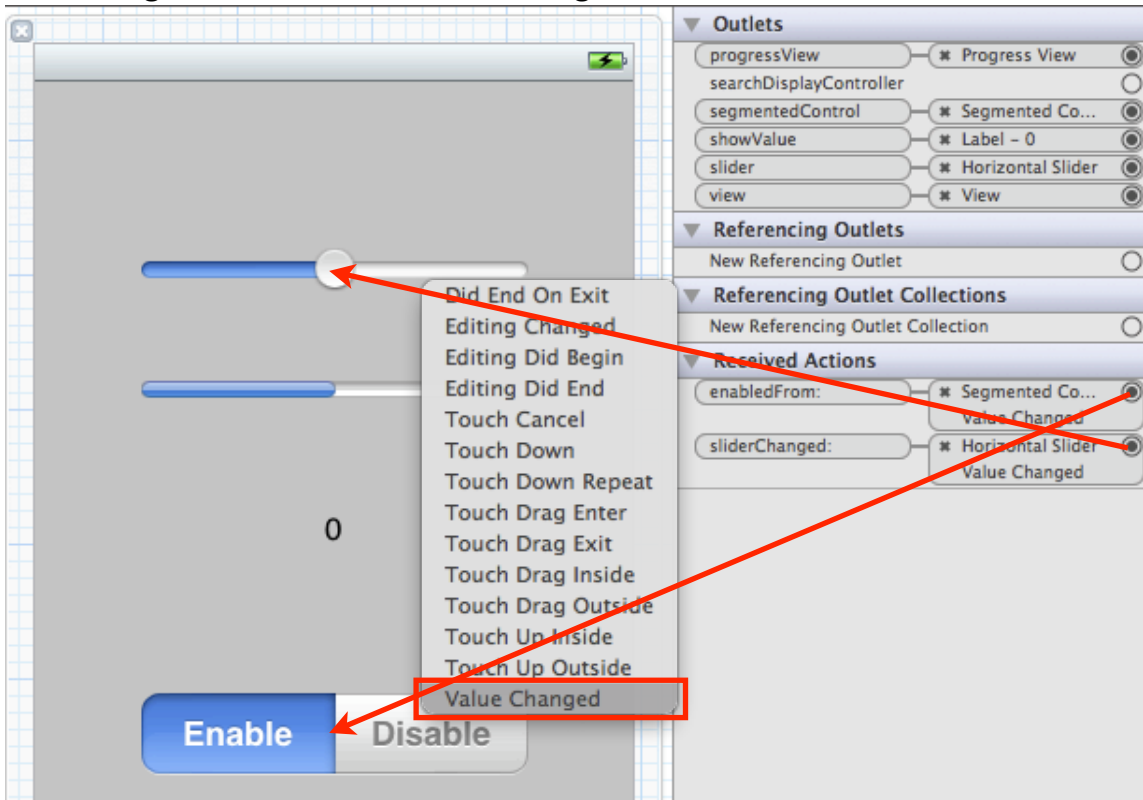


Step 4. 同樣在 MixedComponentViewController.xib, 開啓File's owner的Connection Inspector並且將對應的物件做連結

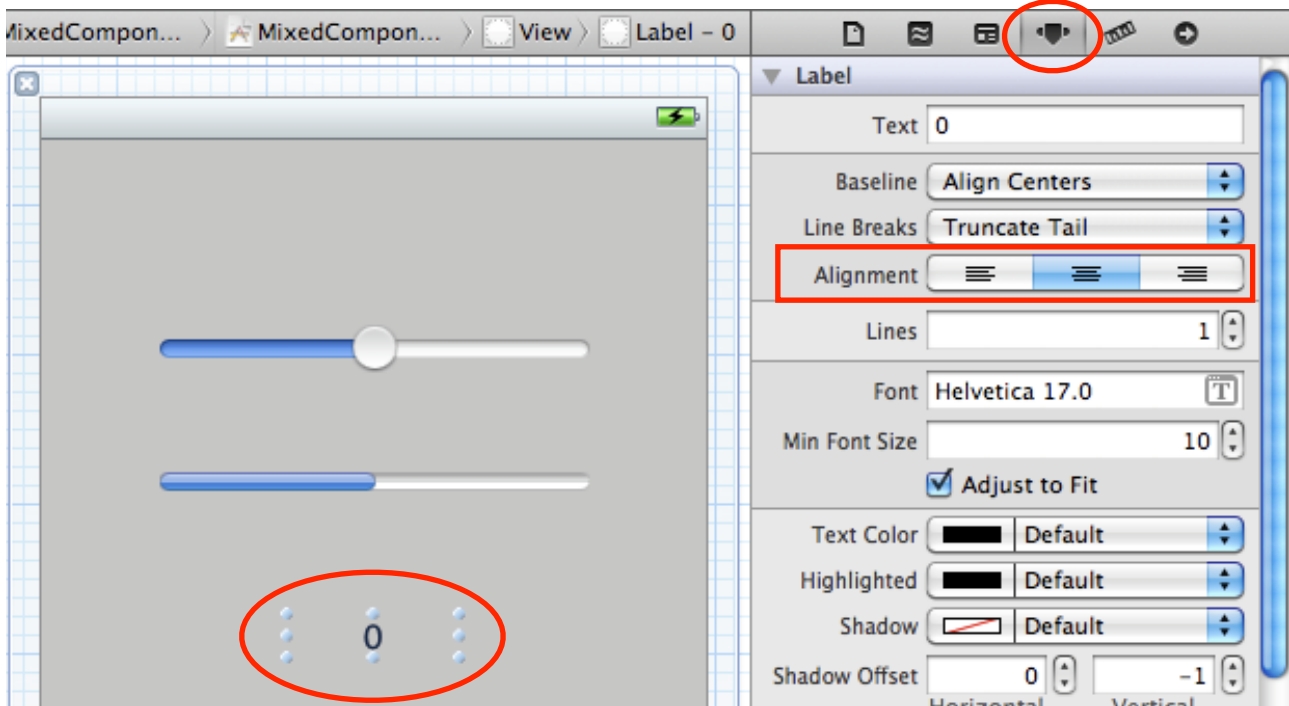
**slider**連到View裡的**UISlider**, **progressView**連到View裡的**UIProgressView**, **showValue**連到View裡的**UILabel**,以及**segmentedControl**連到View裡的**UISegmentedControl**



Step 5. 同樣在 MixedComponentViewController.xib, 將兩個IBAction作連結, **enabledFrom:**連到**UISegmentedControl**, **sliderChanged:**連到**UISlider**, Event皆選擇**Value Changed**



Step 6. 同樣在 MixedComponentViewController.xib. 開啓我們加入的UILabel的**Attributes Inspector**去將Alignment設為置中, 方便我們數值的顯示



Step 7. 開啓 MixedComponentViewController.m, 將 viewDidLoad 這個Method的Mark去掉, 加入下列程式, 將slider設定初始值為0.0, progressView設定Progress為slider的值, segmentedControl設定SelectedSegmentIndex為0 (Enable), 然後將tempValue設為現在slider的Value

```
- (void)viewDidLoad
{
    [super viewDidLoad];
    [slider setValue:0.0];
    [progressView setProgress:[slider value]];
    [segmentedControl setSelectedSegmentIndex:0];
    tempValue = [slider value];
}
```

Step 8. 同樣的在MixedComponentViewController.m裡, 實作兩個IBAction, sliderChanged: 是當UISlider的值有改變時, 將progressView的Progress, tempValue的值, 以及showValue這個Label的text都更新為現在UISlider更動過後的值, 而 enabledFrom: 是在UISegmentedControl在變換時將UISlider做Enable/Disable的動作, 並將值取出或是存入tempValue中

```
-(IBAction)sliderChanged:(UISlider *)aSlider{
    if ([segmentedControl selectedSegmentIndex] == 0) {
        [progressView setProgress:[aSlider value]];
        tempValue = [aSlider value];
        showValue.text = [NSString stringWithFormat:@"%f", [aSlider
value]];
    }
}
```

```

- (IBAction)enabledFrom:(UISegmentedControl *)aSegmentedControl {
    if ([aSegmentedControl selectedSegmentIndex] == 0) {
        [slider setValue:tempValue];
        [progressView setProgress:[slider value]];
        [slider setEnabled:YES];
    }
    else {
        tempValue = [slider value];
        [slider setValue:0.0];
        [progressView setProgress:[slider value]];
        [slider setEnabled:NO];
    }
    showValue.text = [NSString stringWithFormat:@"%f", [slider value]];
}

```

#### Step 9. Run (⌘+R)

一開始UISegmentedControl是設為Enable, 尚未拖拉UISlider時, UIProgressView也無數值, UILabel顯示的數值為0, 拖拉後UIProgressView顯示的Bar跟著UISlider移動, UILabel開始顯示UISlider的數值



當UISegmentedControl按下Disable時,UISlider和UIProgressView的Bar皆歸0, UILabel的Text也顯示0, 之前的數值存在tempValue中, 重新按下Enable後就又回到之前的狀態

