iPhone App Dev

Lesson 7

Source

https://github.com/bryanttang/iOS-Class-2015-9.git

Contact

bryant.tang | 4mo@gmail.com

Summary

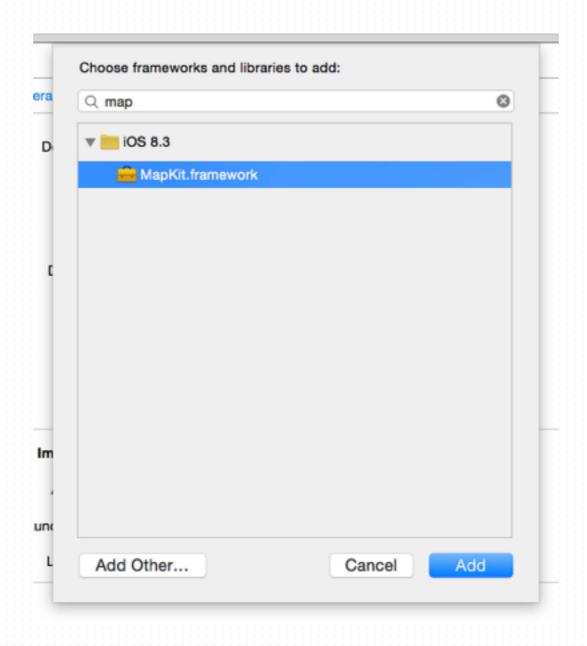
- Navigation Controller (Review)
- MapKit
- User's Location
- UlAlertView
- Third Party SDK

Demo

- To show a map
- To show where you are
- To show places pin annotation and information

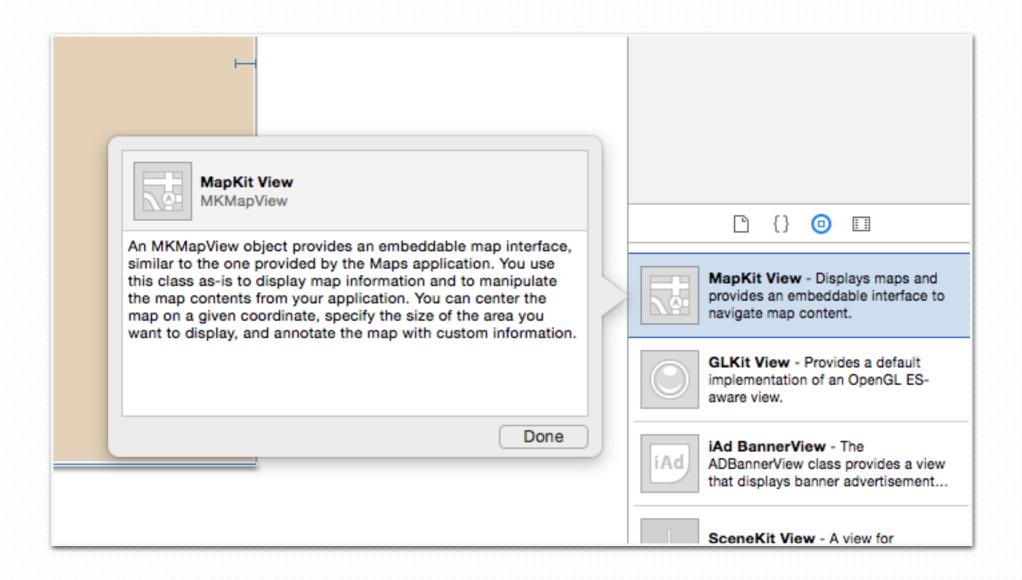
To show a map

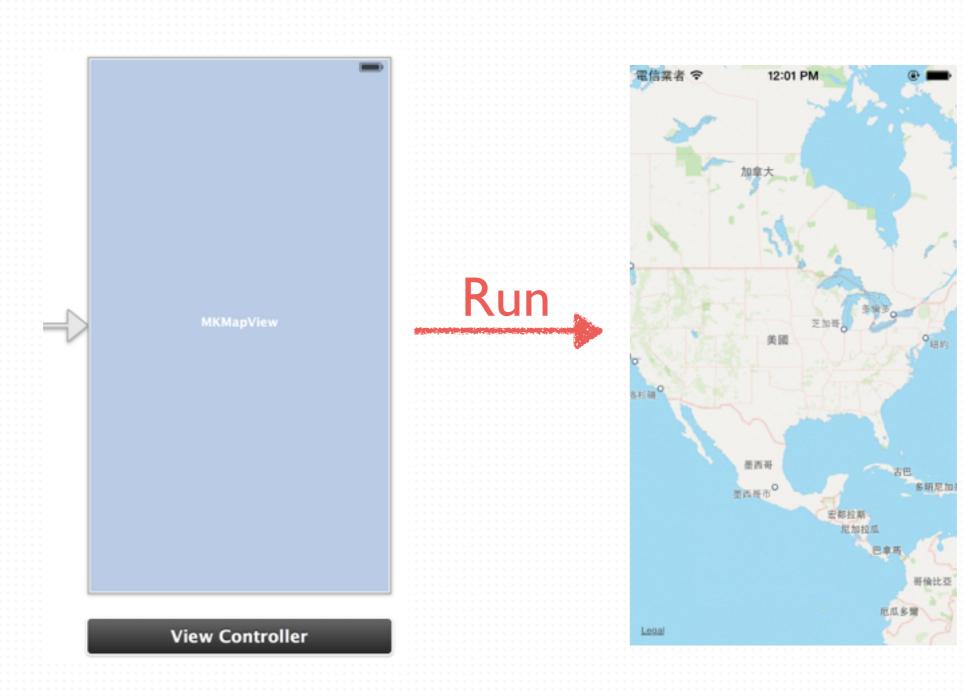
Name	Status
CoreGraphics.framework	Required \$
👜 UIKit.framework	Required 🕏
Foundation.framework	Required ‡



Add framework in project

Drag a map in storyboard





Implement map in code

```
DemoMap
    Created by bryant tang on 4/29/15.
    Copyright (c) 2015 CPTTM. All rights reserved.
#import <UTKit/UTKit.h>
#import <<u>MapKi</u>t/MapKit.h>
         MapKit/
@inte
         MapKit/MapKit.h
@property (strong, nonatomic) IBOutlet MKMapView *myMap;
@end
```

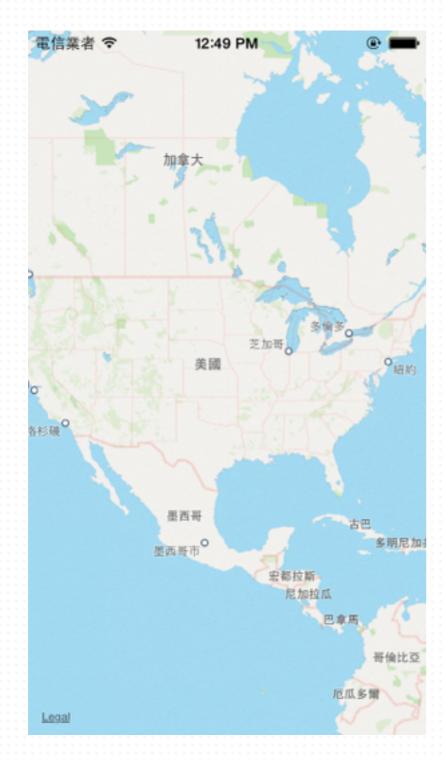
Create a map

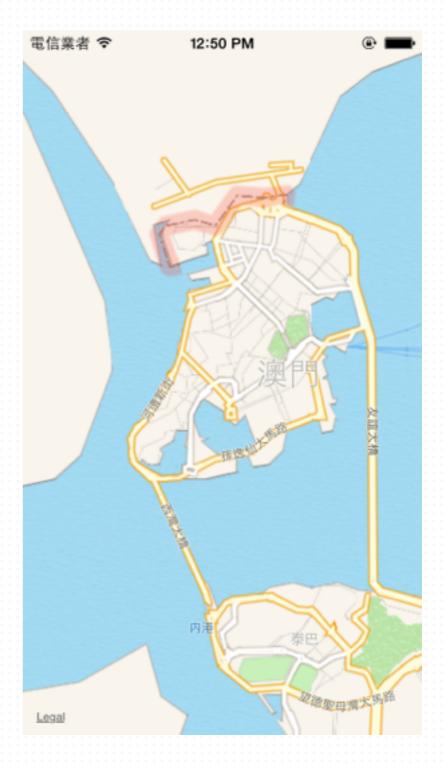
```
@property (strong, nonatomic) IBOutlet MKMapView *myMap;
```

- Setting the Visible Portion of the Map
 - Set region
 - Set coordination

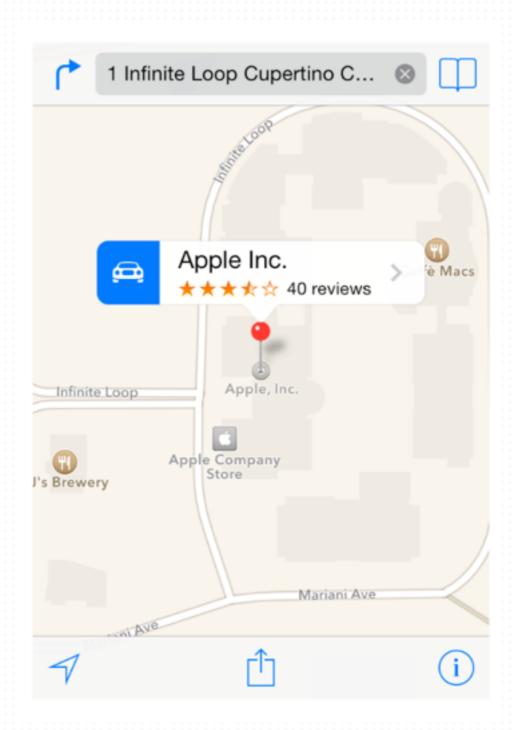
MKCoordinateRegion theRegion = mapView.region;

```
theRegion.center.latitude = 22.192344;
theRegion.center.longitude = 113.542096;
theRegion.span.longitudeDelta *= 0.0001;
theRegion.span.latitudeDelta *= 0.0001;
mapView.region = theRegion;
```





Annotation



- Two options to define an annotation
 - PointAnnotation
 - Custom Annotation View

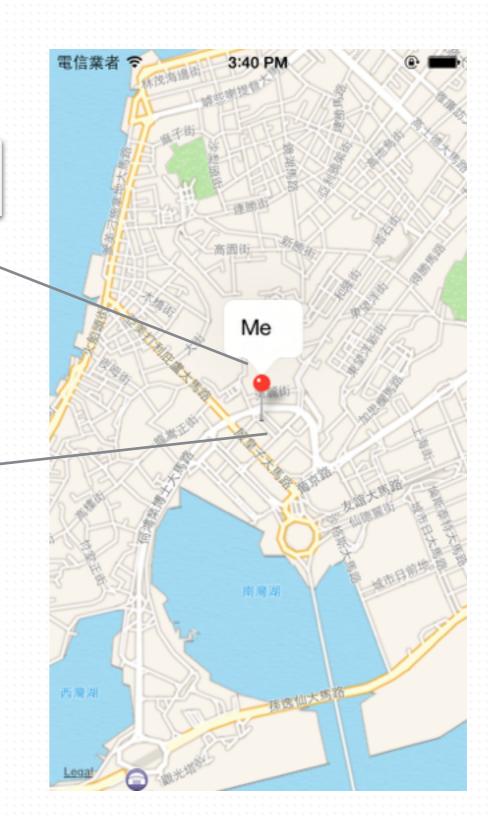
MKPointAnnotation

MKPointAnnotation *myAnnotation = [[MKPointAnnotation alloc] init];
myAnnotation.coordinate = CLLocationCoordinate2DMake(22.262769, 114.193054);
myAnnotation.title = @"Bryant";

- Coordinate
- Title/Subtitle

Add annotation to map

[mapView addAnnotation:annotation];



Custom Annotation View

Annotation (MKPointAnnotation)

Coordinate

Data-info

Annotation View

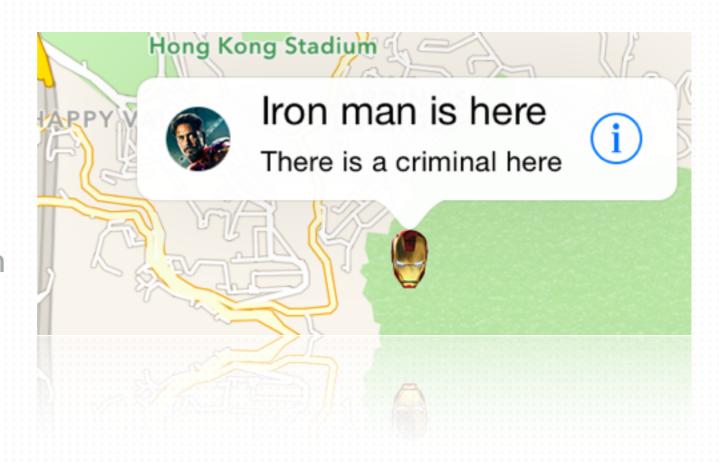
Color

Image of annotation

Callouts



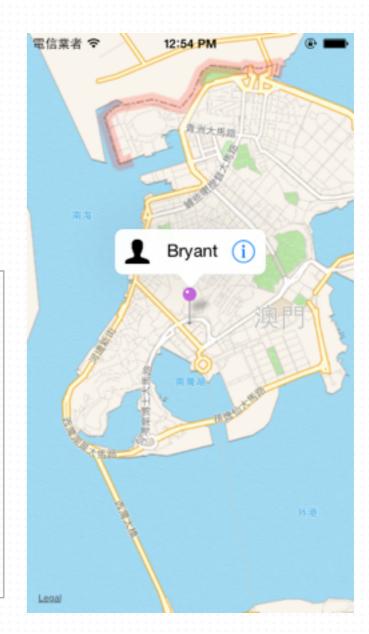




Custom Annotation View

Annotation View

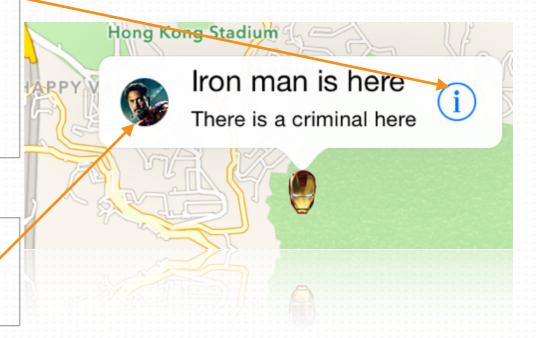
Implement the delegate method:



Custom Callouts

```
UIButton *rightButton = [UIButton
buttonWithType:UIButtonTypeDetailDisclosure];
[rightButton addTarget:self action:@select(clickInfo:)
forControlEvents:UIControlEventTouchUpInside];
aView.rightCalloutAccessoryView = rightButton;
```

```
UIImageView *myCustomImage = [[UIImageView alloc]
initWithImage:[UIImage imageNamed:@"person_head"]];
aView.leftCalloutAccessoryView = myCustomImage;
```

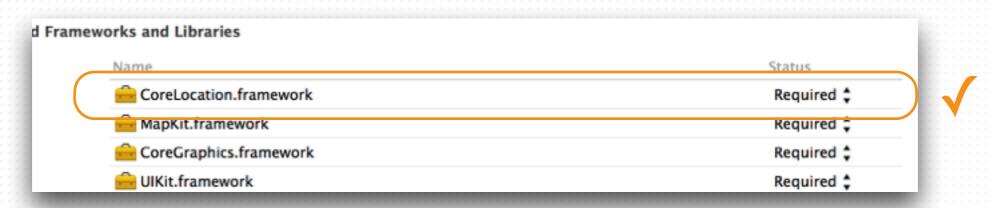


Find user's location - (Facebook Check in)

Track user's location - (Driving Navigation)

- Standard location service
- Significant-change location service

- Add CoreLocation framework
- import <CoreLocation/CoreLocation.h>



```
//
// Created by bryant tang on 5/12/14.
// Copyright (c) 2014 bryant. All rights
//
#import "ViewController.h"
#import "MyCustomAnnotation.h"
#import <CoreLocation/CoreLocation.h>

@interface ViewController ()
```

Declare location manager

```
locationManager = [[CLLocationManager alloc] init];
locationManager.delegate = self;
```

Accuracy setting

```
locationManager.desiredAccuracy = kCLLocationAccuracyBest;
locationManager.distanceFilter = 50; // meters
```

Start location manager

```
[locationManager startUpdatingLocation];
```

Update location

Authorization (iOS 8)

Apparently in iOS 8 SDK,

requestAlwaysAuthorization (for background location) or

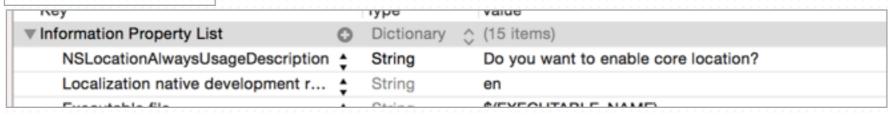
requestWhenInUseAuthorization (location only when foreground)

call on CLLocationManager is needed before starting location updates

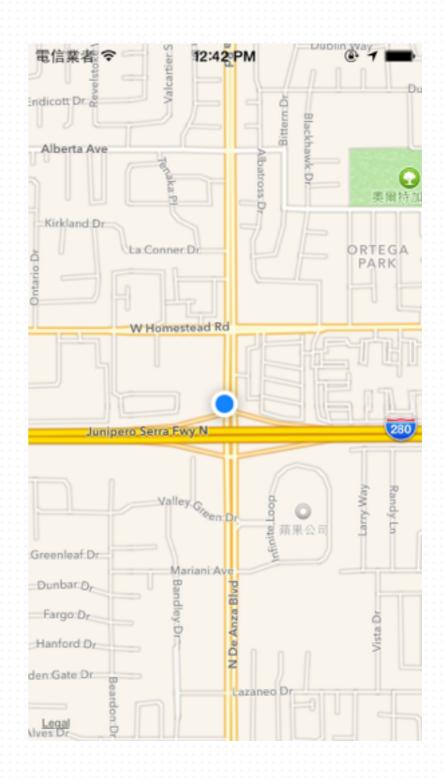
Implement

```
[locationManager requestWhenInUseAuthorization]; // For foreground access
[locationManager requestAlwaysAuthorization]; // For background access
```

Add Description



Show location in map

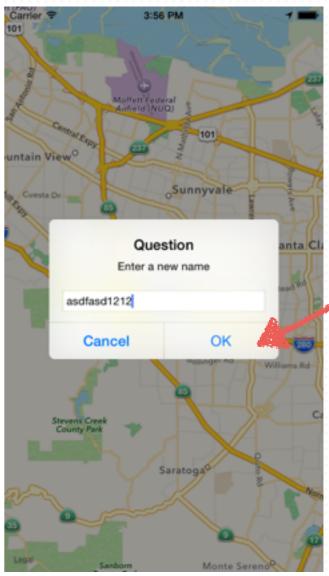


UIAlertView

Create an alert view and show

UIAlertView

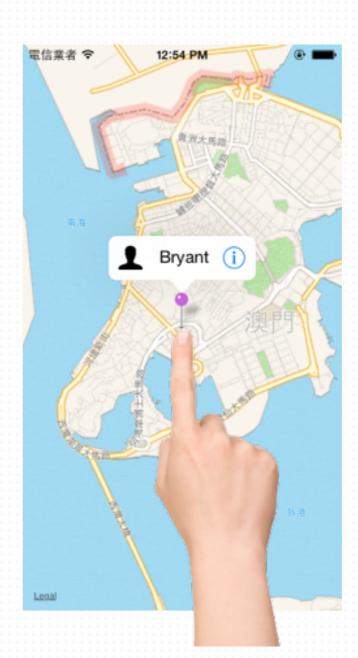
Delegate function

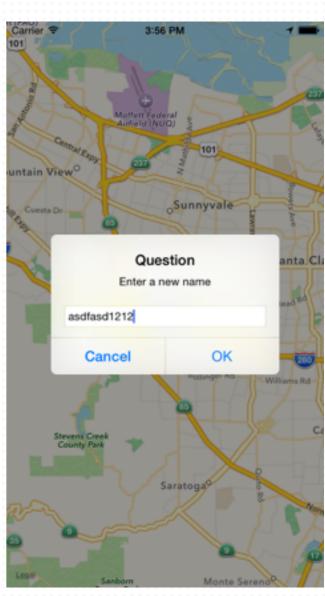


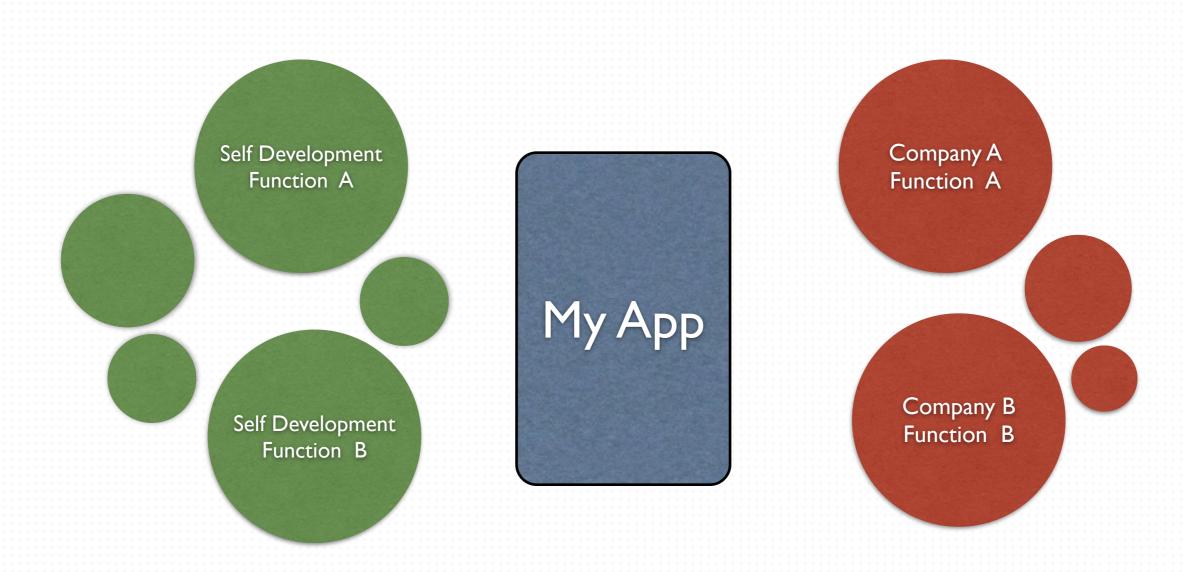


Homework

- Add annotation at map
- Add on place where you point
- Enter a name for annotation







Must think about before using Third Party SDK

- Deprecated when Updated of iOS
- SDKs compatible
- New language

Google Map iOS SDK

Tutorial Website

https://developers.google.com/maps/

Steps

- Download SDK
- Import SDK in your Project
- Register Key or licence
- Import Library in your Class
- Initial API