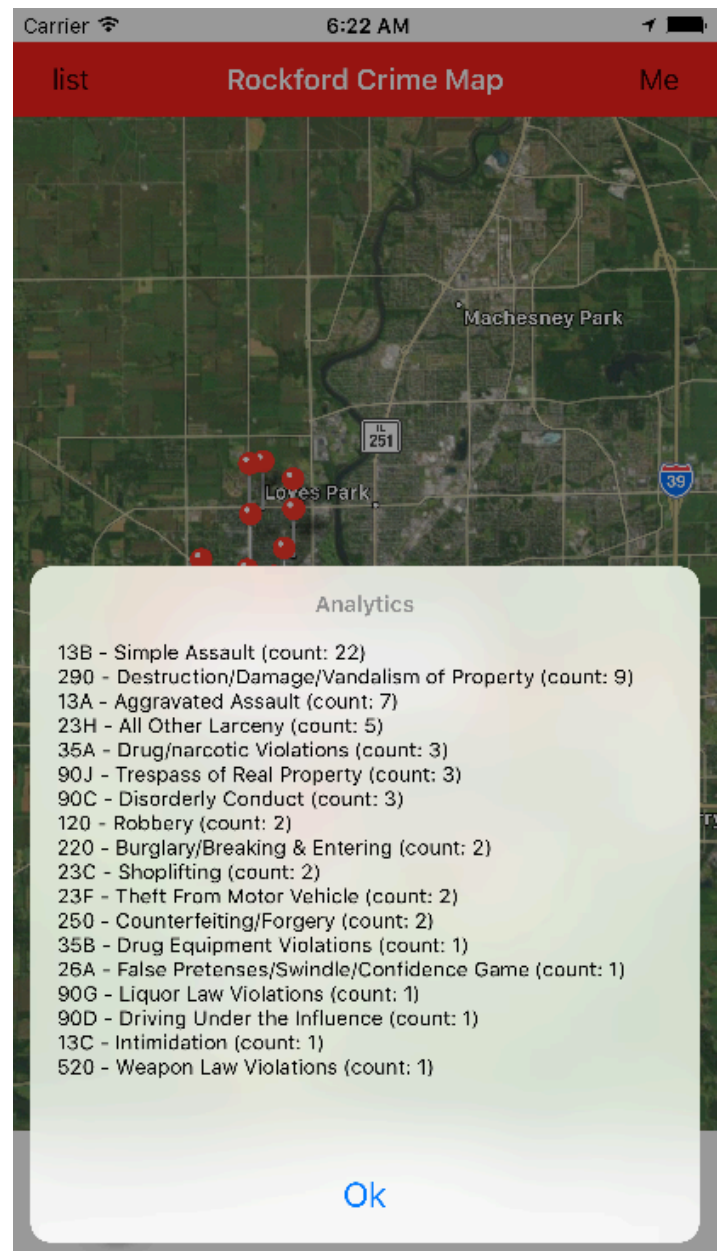
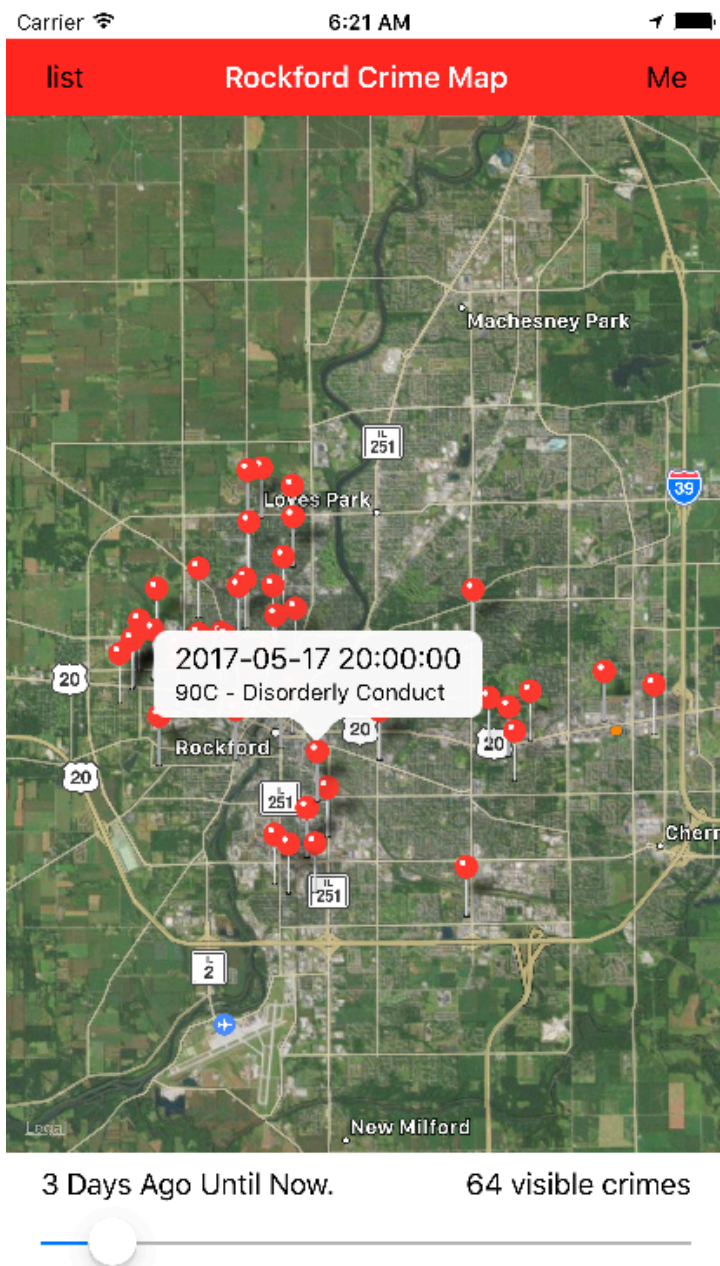


CrimeMap

This app uses Open Data from Rockford City Government of crime facts in the Rockford region. This data is viewed on the Mapkit using annotations. In addition, the app allows user to use a slider object and show crimes from X days ago until current date. In addition, the user can view a list of crimes with count. Finally, users can tap the Me button and see crime within 5000 meters region.

Concepts: MapKit @ JSON Data
<https://github.com/ioscourse/CrimeMap>






iOSBootCamp, Week 2
Professor Chuck Konkol
Rock Valley College



MapKit Tutorial - [Watch Podcast: http://youtu.be/ISEjVnsFXfE](http://youtu.be/ISEjVnsFXfE)

1. Create **New Single View Application**, Product Name: CrimeMap

Choose a template for your new project:

| | | | | |
|---------------------|---|---|---|--|
| iOS |  |  |  |  |
| Application | Master-Detail Application | Page-Based Application | Single View Application | Tabbed Application |
| Framework & Library | | | | |
| watchOS | | | | |
| Application | | | | |
| Framework & Library | | | | |
| tvOS |  | | | |
| Application | Game | | | |
| Framework & Library | | | | |
| OS X | | | | |
| Application | | | | |
| Framework & Library | | | | |
| System Plug-in | | | | |
| Other | | | | |

Single View Application

This template provides a starting point for an application that uses a single view. It provides a view controller to manage the view, and a storyboard or nib file that contains the view.

Cancel Previous Next

Choose options for your new project:

Product Name:

Organization Name:

Organization Identifier:

Bundle Identifier:

Language:

Devices:

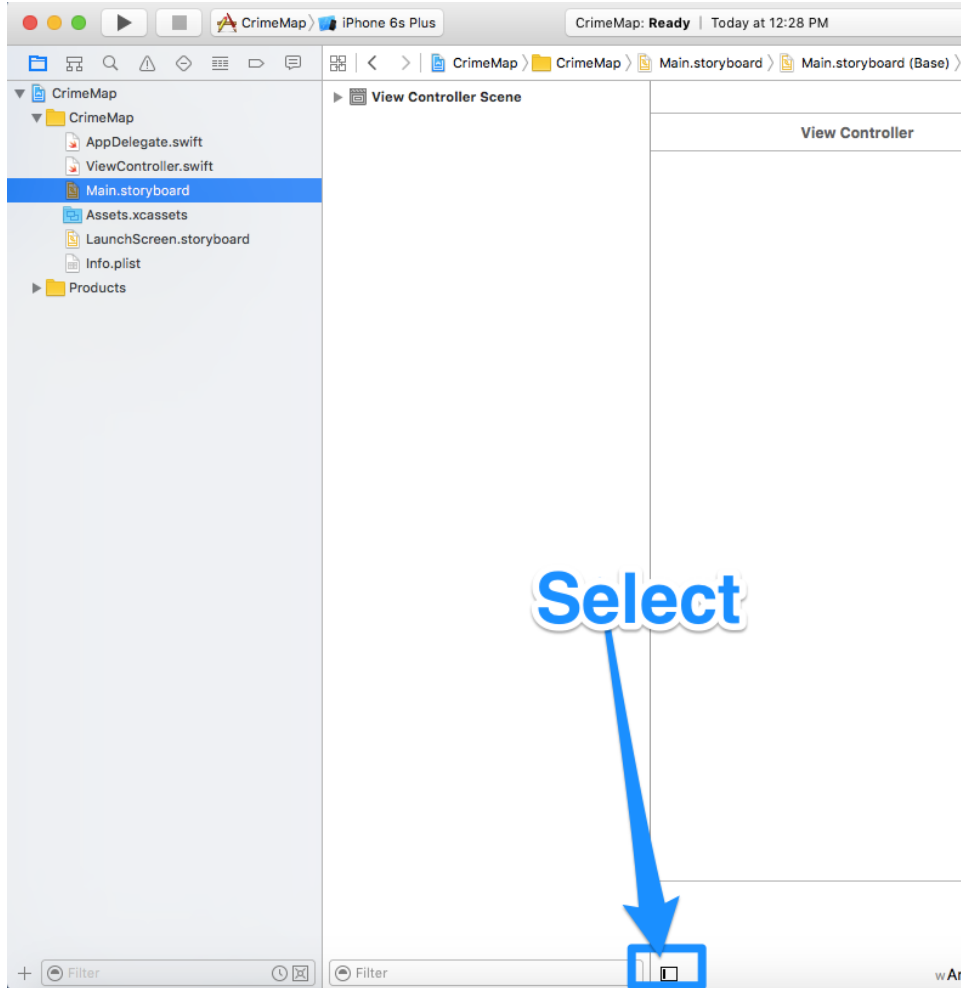
☐ Use Core Data

☐ Include Unit Tests

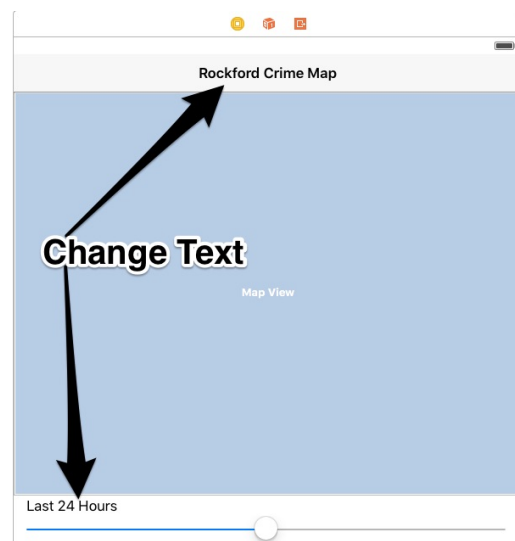
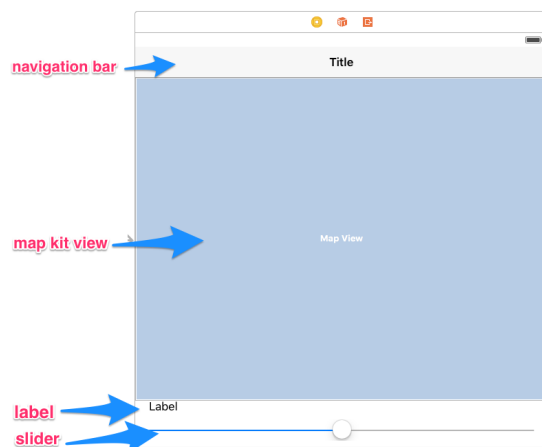
☐ Include UI Tests

Cancel Previous Next

2. Set Device Orientation to **Portrait**
3. Select **Main.Stroyboard**
4. Hide Document Outline



5. Add Objects to View Controller
 - Navigation Bar. Change **Title** to **Rockford Crime Map**
 - Map Kit View
 - Label. Change **Label** to **Last 24 Hours**
 - UISlider

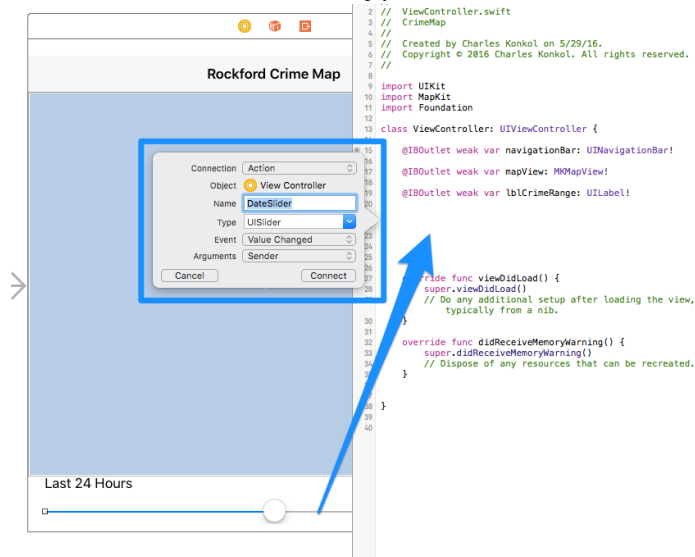


6. Click on viewController.swift and add Imports to top of viewController.swift

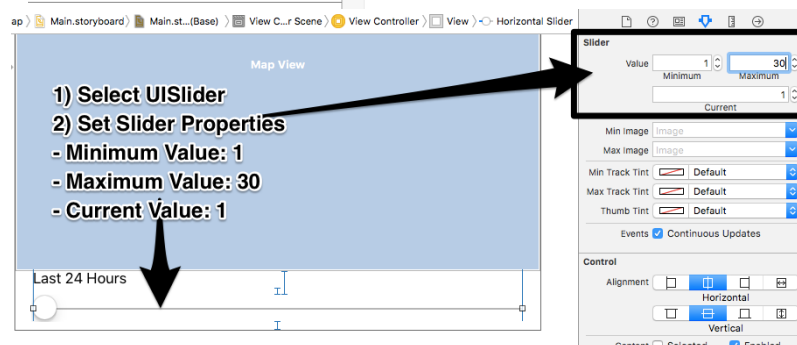
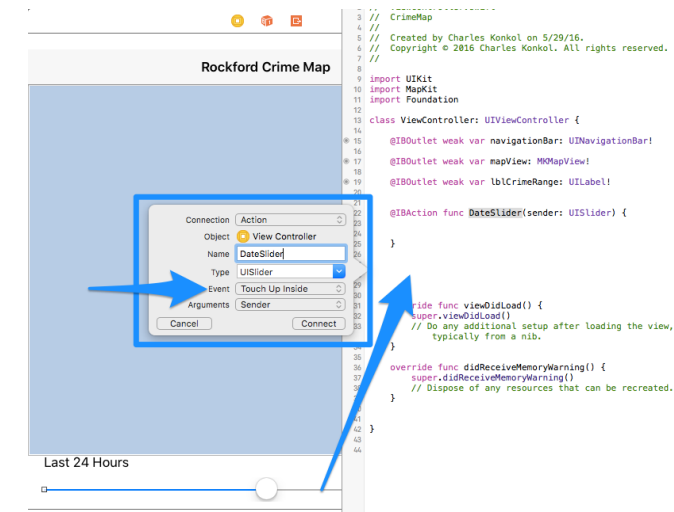
```
import MapKit
import Foundation
```

7. Click on Main.StoryBoard > Show Assistant Editor and Create Outlets & Actions (Click, Drag and Drop to Code)

- Navigation Bar - Name: **navigationBar**
- Map Kit View - Name: **mapView**
- Label - Name: **lblCrimeRange**
- Slider – 2 Action Events
 - Name: **DateSlider**, Type: **UISlider**, Event: **Value Changed**

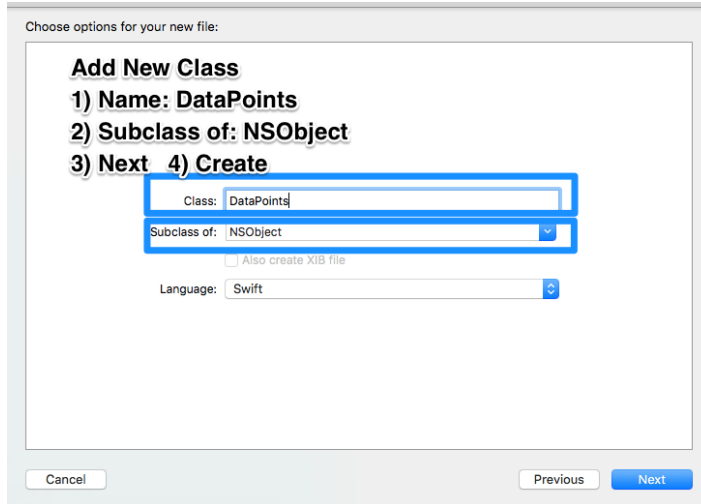


- Name: **DateSliderUp**, Type: **UISlider**, Event: **Touch Up Inside**



8. Add New Class

- Control Click on **CrimeMap** folder and select **New File**



- Class Name: **DataPoints**, Subclass: **NSObject**, Language: **Swift**

9. Add Code. Follow Comment Steps in Code.

Disregard errors until ALL Steps are completed in BOTH below files

- [ViewController.swift](#)
- [DataPoints.swift](#)

10. Align Objects

- Editor > Resolve Auto Layout Issues > Reset to Suggested Constraints

11. Test. [Command] + R

12. Add Icon

- User Pixlr.com to create a 1024x1024 icon for app
 - <https://makeappicon.com/>
- Upon download of .Zip file drag the iOS AppIcon folder to the **App Icon Source**

