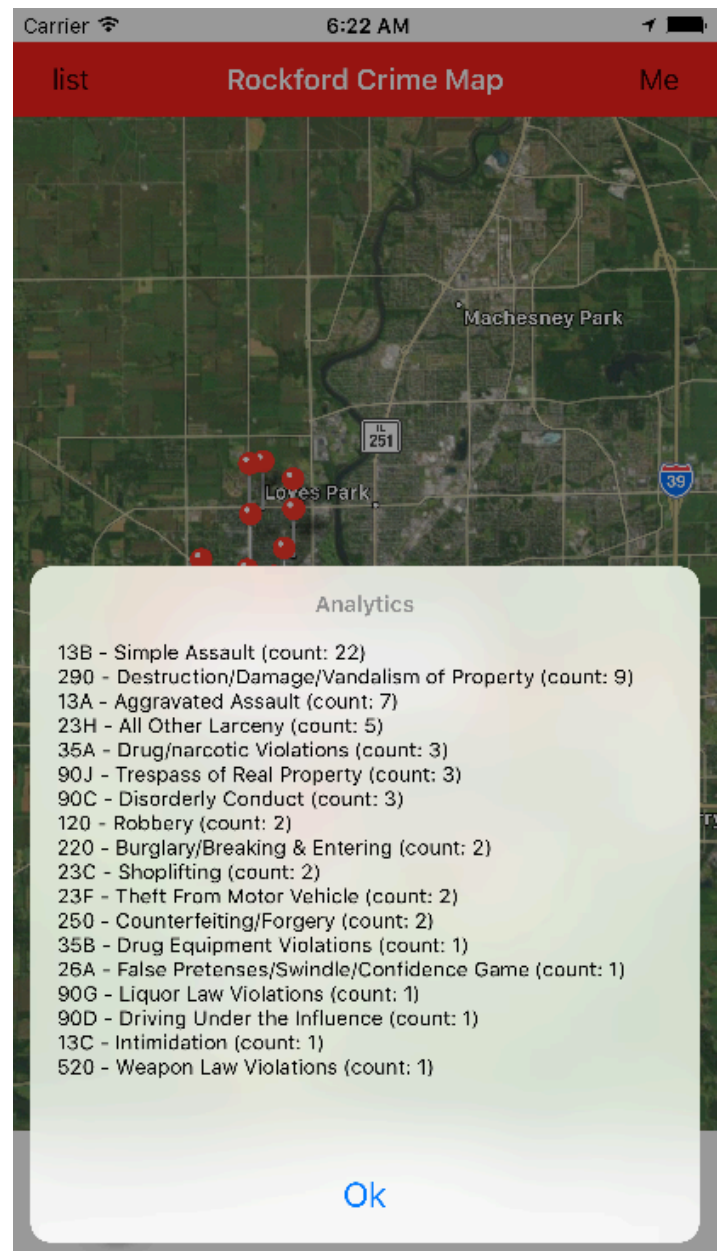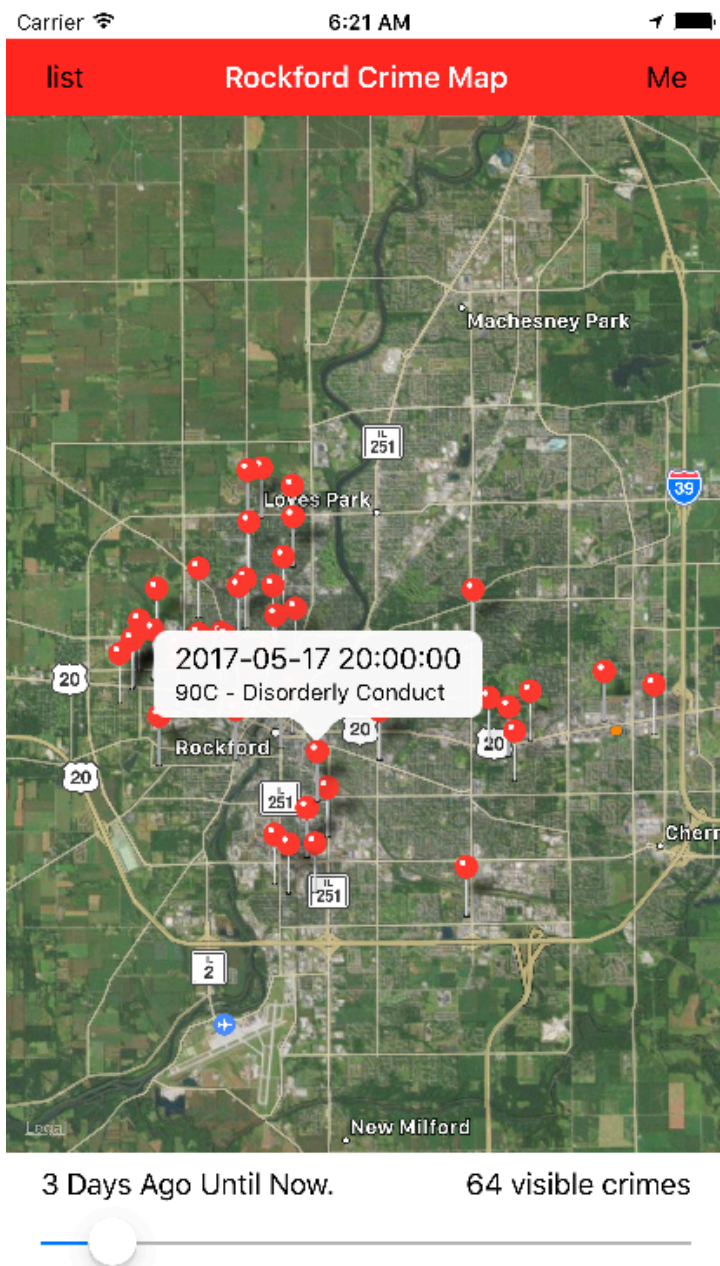# CrimeMap

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 -

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	Game			
Application				
Framework & Library				
tvOS				
Application				
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: CrimeMap

Organization Name: Charles Konkol

Organization Identifier: edu.rockvalleycollege

Bundle Identifier: edu.rockvalleycollege.CrimeMap
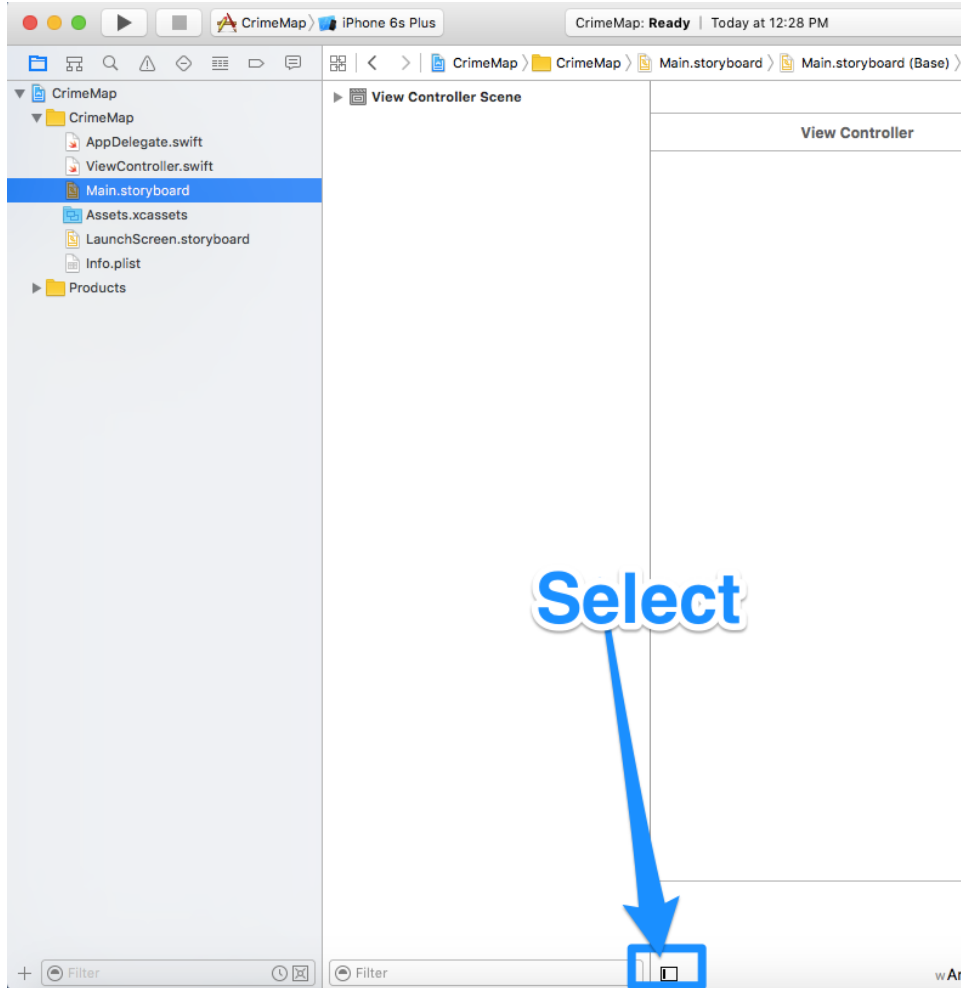
Language: Swift

Devices: iPhone

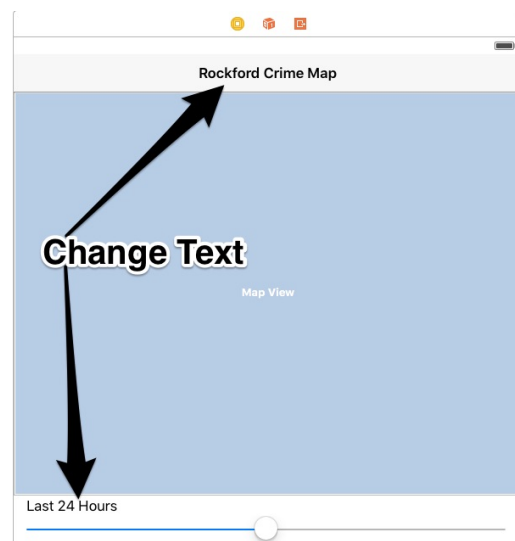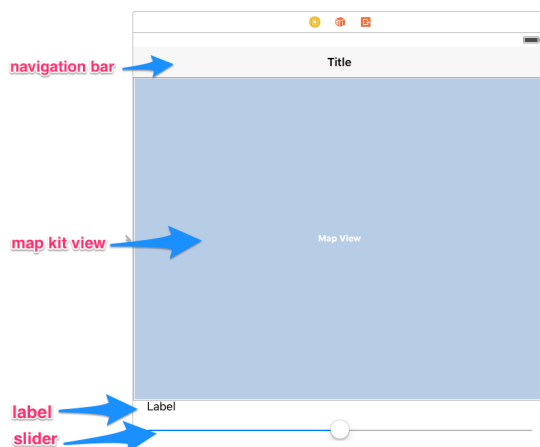☐ Use Core Data
☐ Include Unit Tests
☐ Include UI Tests

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**
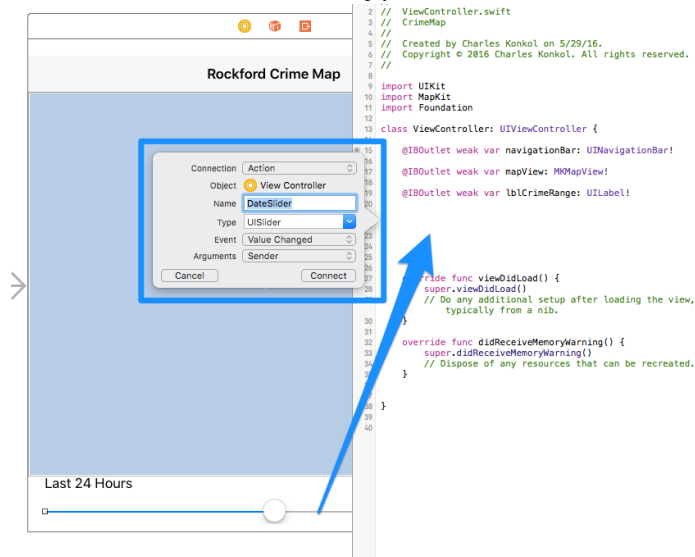   - UISlider

6. Click on viewcontroller.swift and add Imports to top of viewcontroller.swift
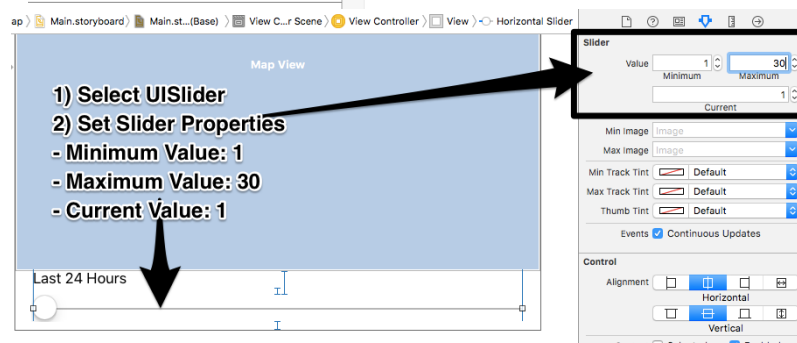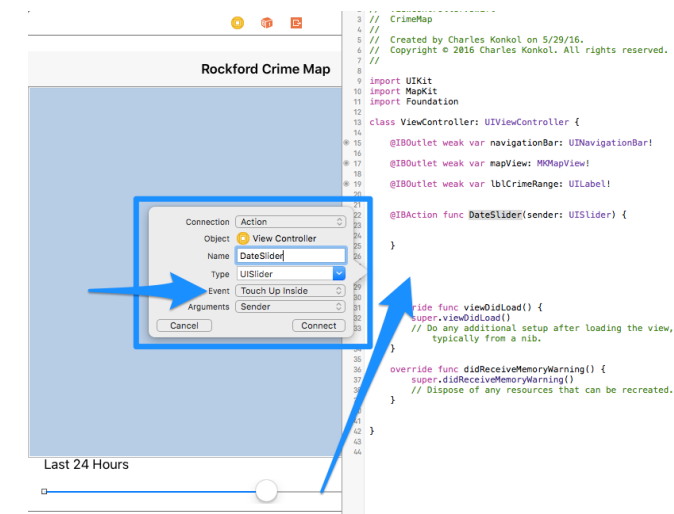   ```
   import MapKit
   import Foundation
   ```

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**
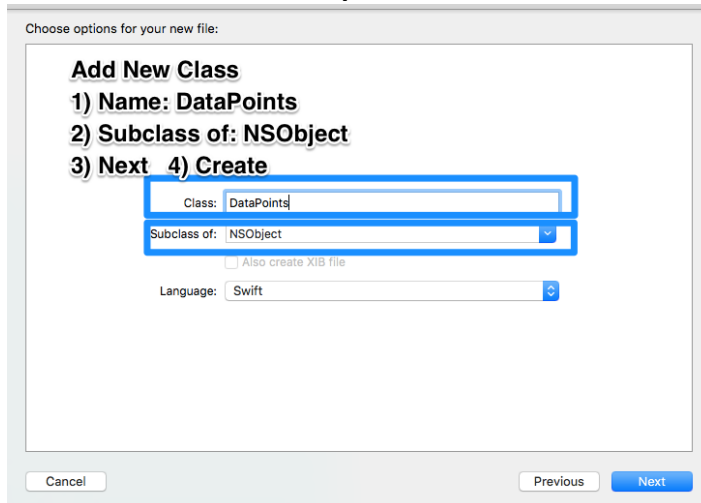


     - Name: **DateSliderUp**, Type: **UISlider**, Event: **Touch Up Inside**



1) Select UISlider
2) Set Slider Properties
- Minimum Value: 1
- Maximum Value: 30
- Current Value: 1

8. Add New Class
   - Control Click on **CrimeMap** folder and select **New File**



   -
   - Class Name: **DataPoints,** Subclass: **NSObject**, Language: **Swift**
9. Add Code. Follow Commenst 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**