MapKit Tutorial - <u>Watch Podcast while following below steps</u>

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	Game			
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
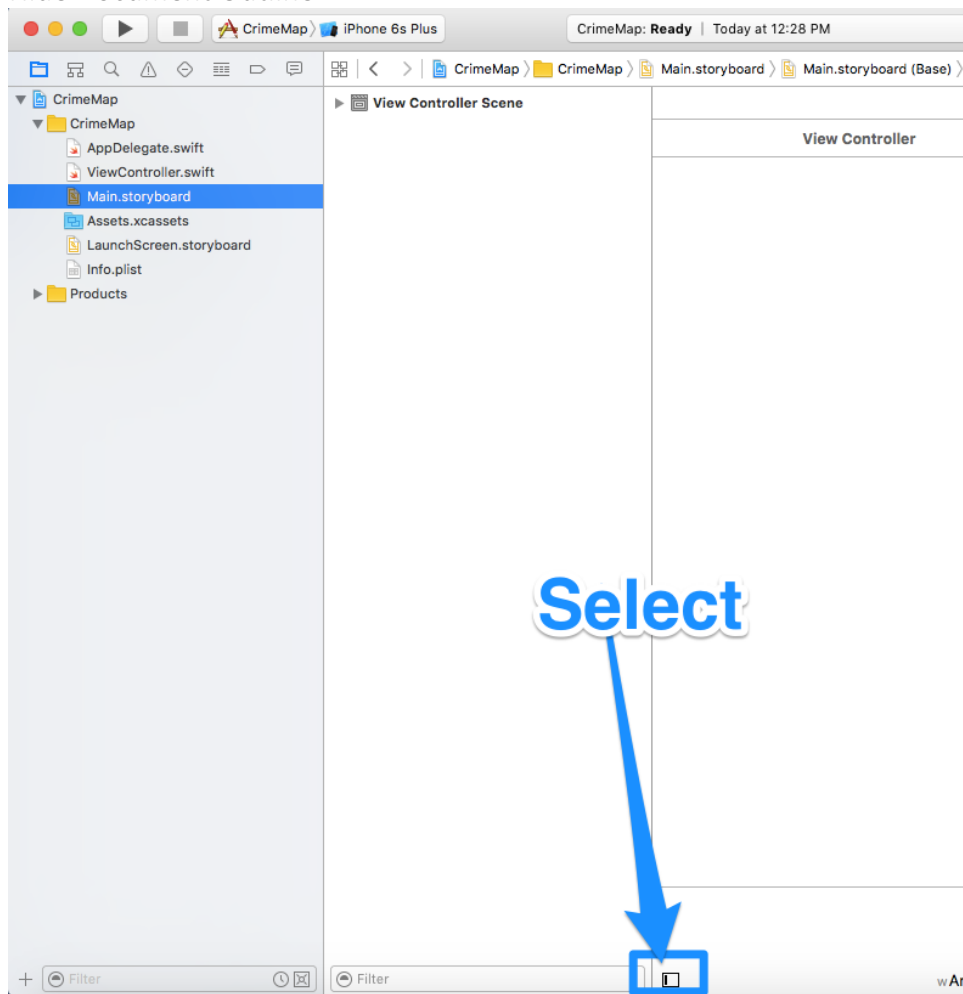
Language: Swift

Devices: iPhone

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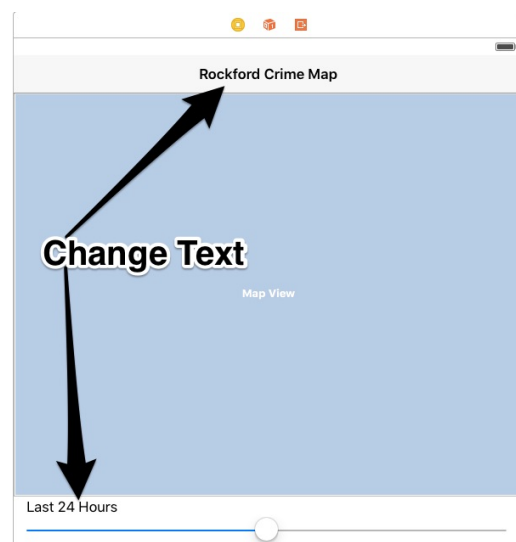☐ Include Unit Tests
☐ Include UI Tests

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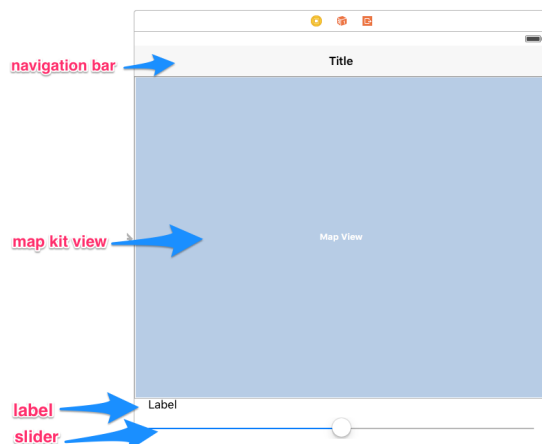
2. Set Device Orientation to **Portrait**
3. Select **Main.Stroyboard**
4. Hide Document Outline

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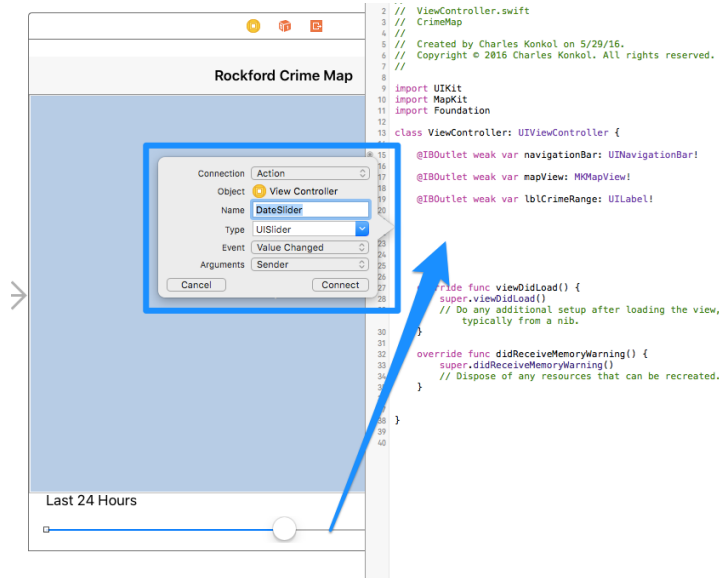   - Label. Change **Label** to **Last 24 Hours**
   - UISlider

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

```
import Foundation
```

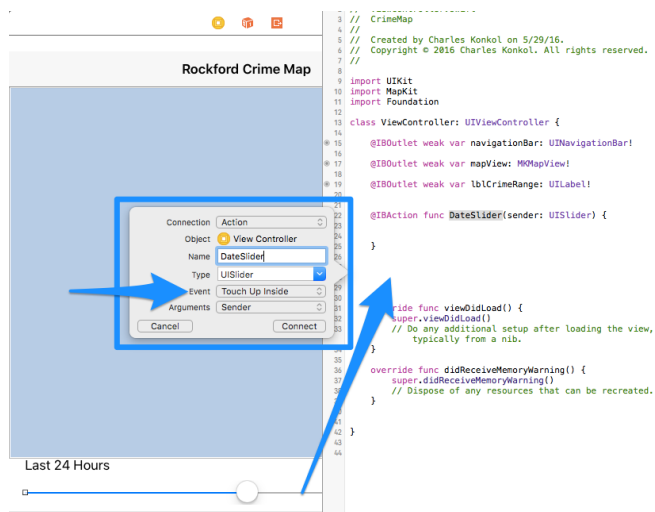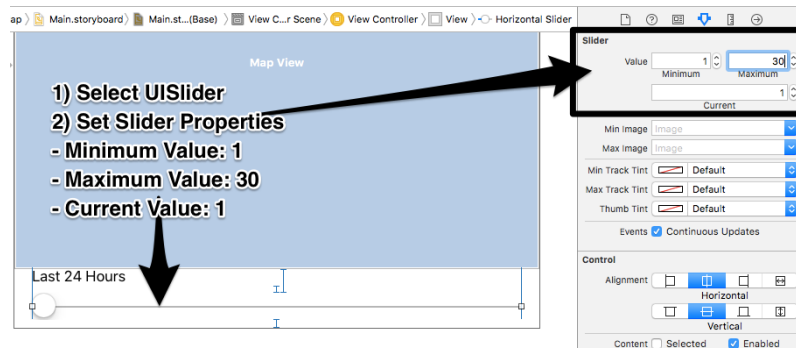7. Click on Main.StoryBoard > Show Assistant Editor and Create Outlets & Actions (Click, Drag and Drop to Code)

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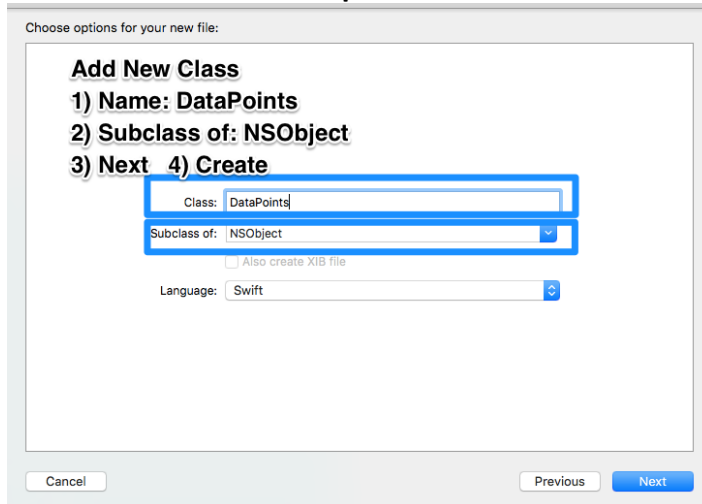 - Name: **DateSlider**, Type: **UISlider**, Event: **Value Changed**

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

Map View

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

Last 24 Hours

Slider

Value   1 ⊘   30 ⊘
    Minimum   Maximum
                                1 ⊘
            Current

Min Image   Image
Max Image   Image
Min Track Tint   Default
Max Track Tint   Default
Thumb Tint   Default

Events ☑ Continuous Updates

Control

Alignment   Horizontal
                    Vertical

Content ☐ Selected   ☑ Enabled

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

     Choose options for your new file:

     Add New Class
     1) Name: DataPoints
     2) Subclass of: NSObject
     3) Next 4) Create

     Class: DataPoints
     Subclass of: NSObject
     ☐ Also create XIB file
     Language: Swift

     Cancel   Previous   Next

   - 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
    - https://makeappicon.com/