

Jump to a Section

[Intro to Maps](#)

[Adding Map to Storyboard](#)

[View Controller code for the map](#)

Intro to Maps

To add a map to the screen:

1/ Add a MapView to the storyboard

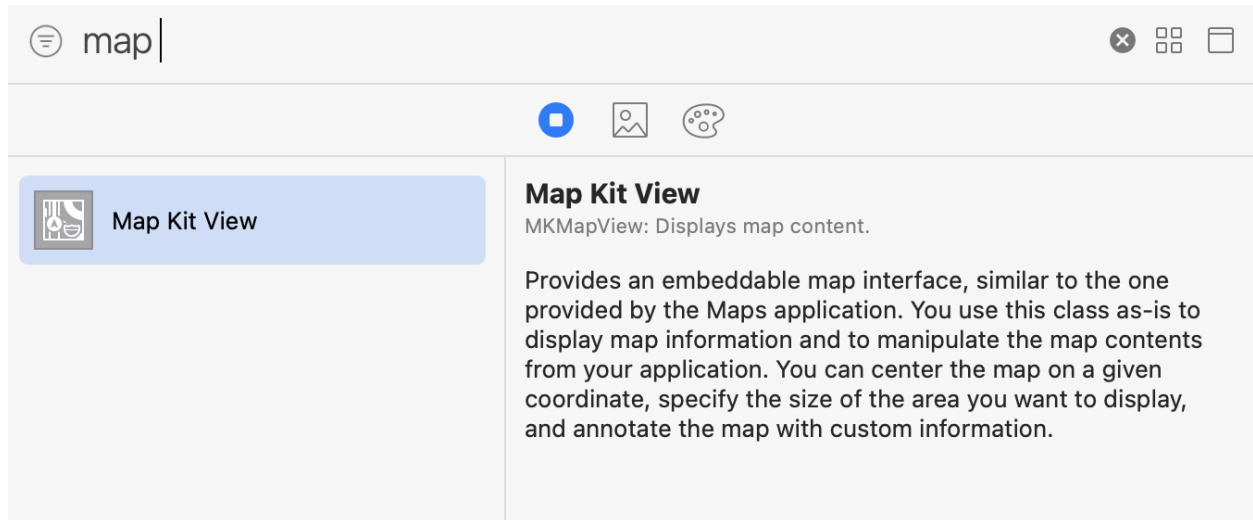
2/ In the ViewController:

- Specify the default zoom level of the map
- Specify where the coordinates of the center of the map
- Associate the zoom level and center with the storyboard's MapView
- Add any other features, such as a pin
- Done!

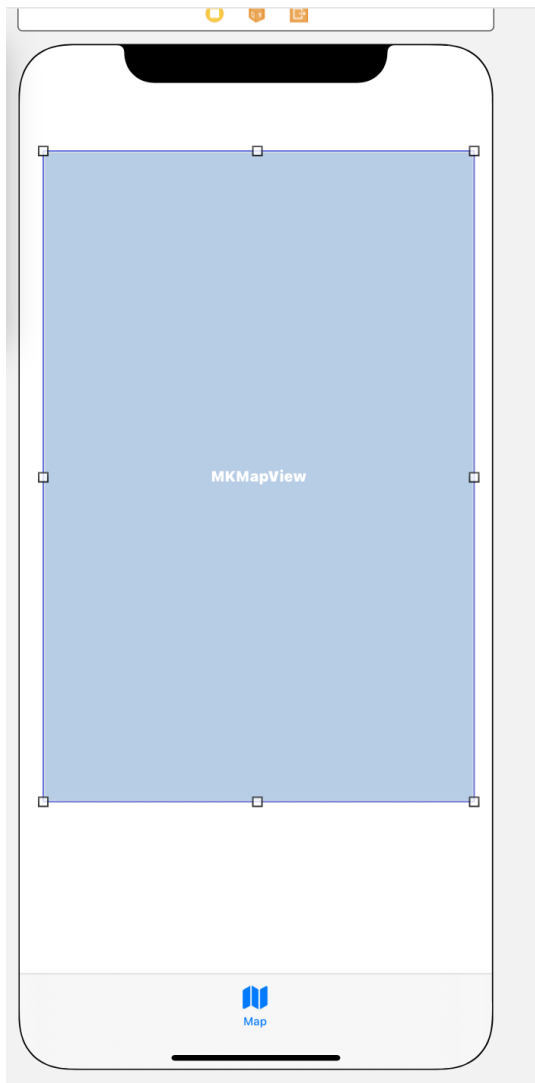
Adding Map to Storyboard

In examples below, we are modifying the Main.storyboard found in the LocationServices-starter.zip file.

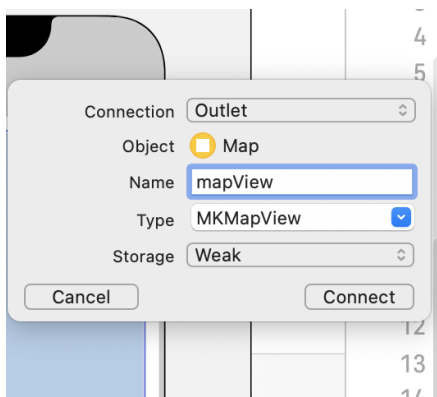
In Storyboard, drag and drop a Map Kit View to the screen



Resize the map as required:



Create an outlet for the MapView



```
4  
5 class MapViewController: UIViewController {  
    // 2. Create an outlet for your map  
  
    override func viewDidLoad() {  
        super.viewDidLoad()  
        // Do any additional setup after loading
```

View Controller code for the map

- Import MapKit
- Configure the mapView outlet's zoom and center
- Add a pin

MapViewController.swift

```
import UIKit

// 1. import MapKit
import MapKit

class MapViewController: UIViewController {

    // 2. Create an outlet for your map
    @IBOutlet weak var mapView: MKMapView!

    override func viewDidLoad() {
        super.viewDidLoad()

        // span = describes the zoom level of your map
        // smaller numbers = more zoomed in
        // larger numbers = more zoomed out
        // 0.01 = street level zoom
        let zoomLevel = MKCoordinateSpan(latitudeDelta:0.05, longitudeDelta:0.05)

        // region = visible area of the map --> center of your map
        let centerOfMap = CLLocationCoordinate2D(latitude:43.64196690, longitude:
-79.38892370)
        let visibleRegion = MKCoordinateRegion(center: centerOfMap, span: zoomLevel)

        // setup the map to show this region
        self.mapView.setRegion(visibleRegion, animated: true)

        // add a pin
        let pin = MKPointAnnotation()
        pin.coordinate = centerOfMap
        pin.title = "This is my pin!"

        self.mapView.addAnnotation(pin)
    }
}
```

