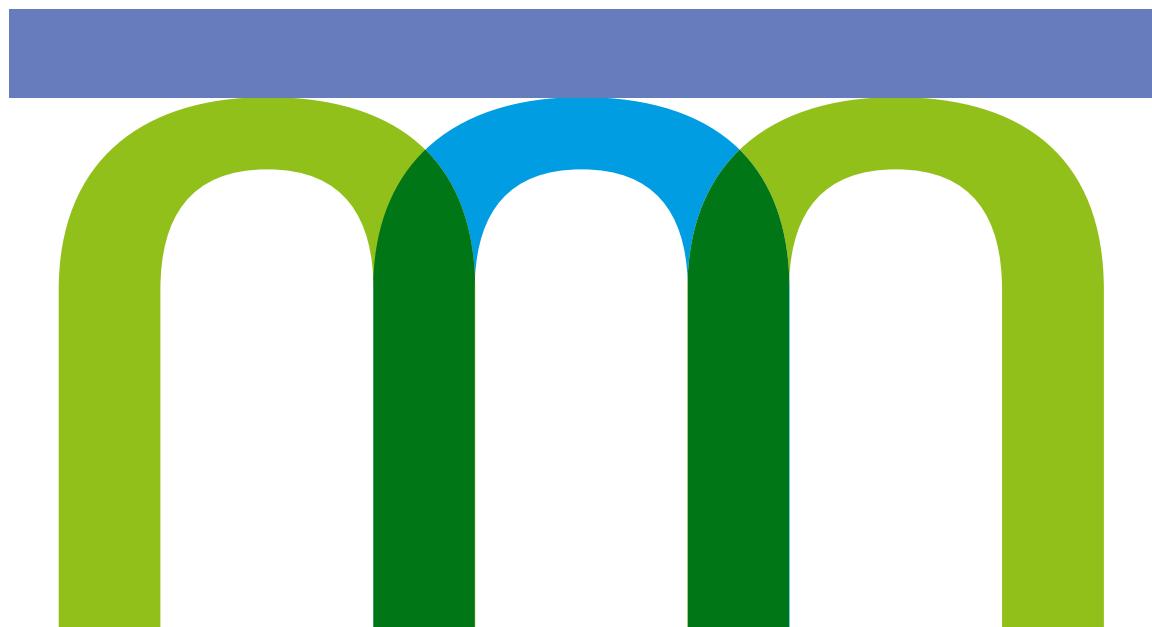




iOS apps development

Bootcamp

Day 3

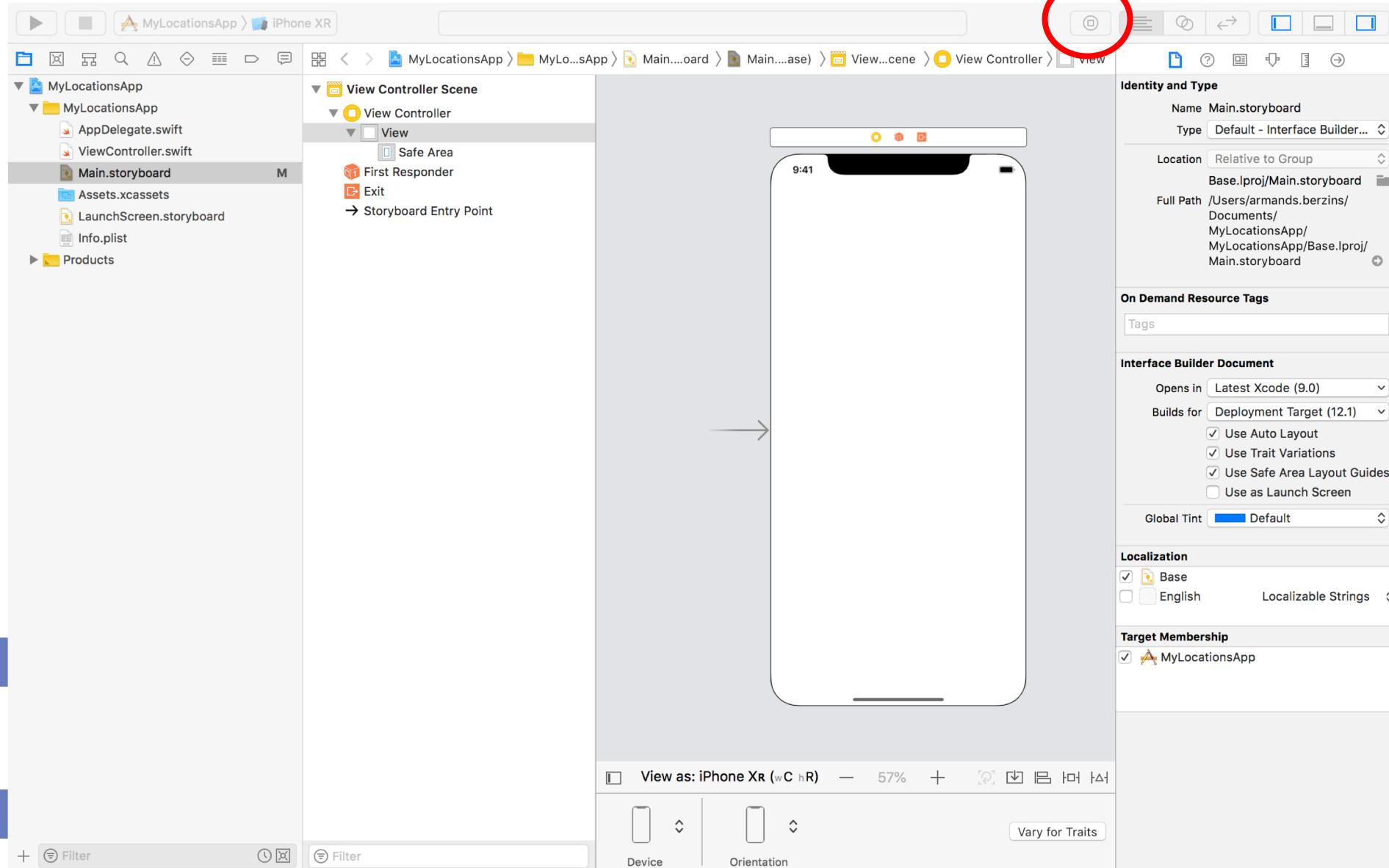


Lead by Armands Berzins

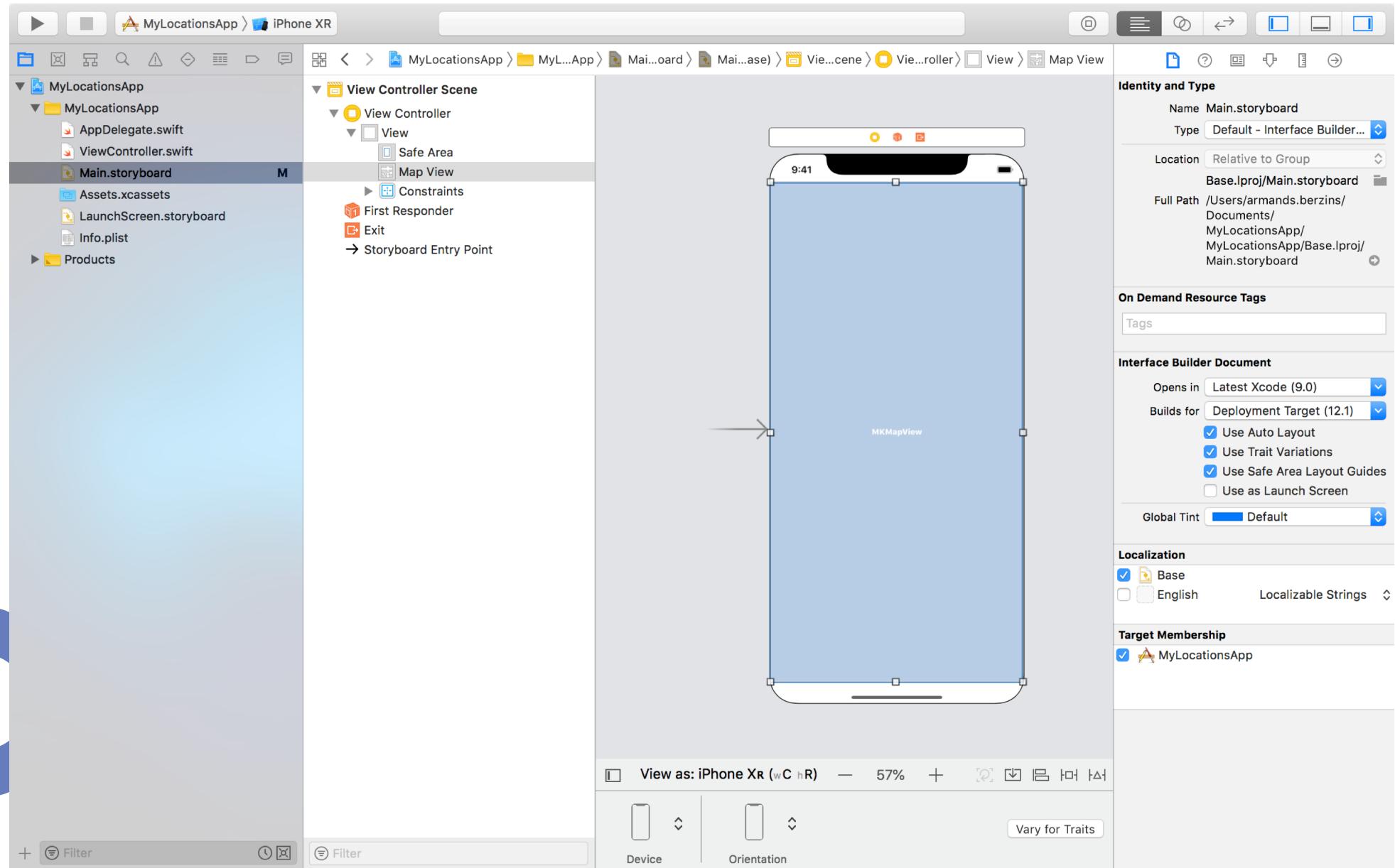
Possible agenda

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00-12:00 Lecture time	Swift language	Node and iOS development essentials	FireBase and MapKit	WebKit, CameraKit	Freestyle app development
12:00-13:00		Lunch time			
13:00-18:00 Practical time	Swift tasks	Node task, Swift app	Map Task	MyFiles App	Freestyle app development and demonstration

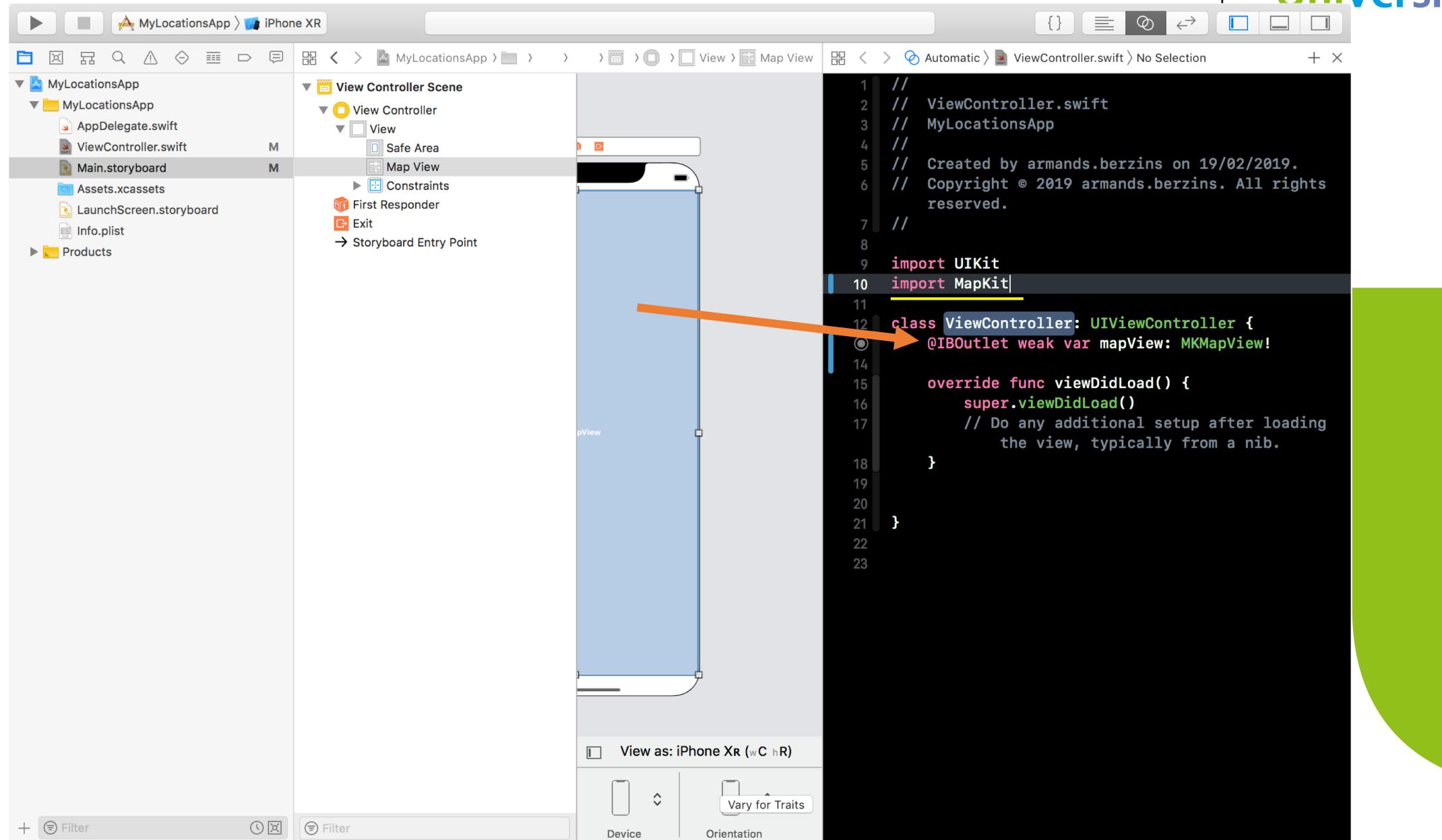
Adding Maps



Adding Maps



Adding Maps



Adding annotations

```
let london = MKPointAnnotation()  
london.title = "London"  
london.coordinate = CLLocationCoordinate2D(latitude: 51.507222, longitude: -0.1275)  
yourMapView.addAnnotation(london)
```

Where to find coordinates:

<https://www.gps-coordinates.net/>

```
func addAnnotations() -> Void {  
    let location = CLLocationCoordinate2D(latitude: 56.9515278243236 ,longitude:  
24.11327362060547)  
    let annotation = MKPointAnnotation()  
    annotation.coordinate = location  
    annotation.title = "Monument of Freedom"  
    annotation.subtitle = "Lady with 3 stars a.k.a Milda"  
    mapView.addAnnotation(annotation)  
}
```

Adding Maps

← → C https://www.gps-coordinates.net

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Home Directions Converter Satellite Street View API Geolocation Where am I Maps Custom

Click directly on the map to get an address and its GPS coordinates. The latitude coordinate and the longitude coordinate are displayed on the left column and on the map.

Mēs jums piešķiram 40 EUR* kredītu, lai jūs varētu sasniegt piemērotākos klientus ar Google reklāmām. Izmantot kredītu Google Ads

Address
Accenture, Gunāra Astras iela 2, Riga, LV-1082, Latvija X

Get GPS Coordinates

DD (decimal degrees)*
Latitude 56.9548165
Longitude 24.1905956

Get Address

Lat,Long 56.9548165,24.1905956

DMS (degrees, minutes, seconds)*
Latitude N 56 ° 57 ' 17.339 "

Longitude E 24 ° 11 ' 26.144 "

Get Address

* World Geodetic System 84 (WGS 84)

Map Satellite

Accenture, Gunāra Astras iela 2, Riga, LV-1082, Latvia
Latitude: 56.954817 | Longitude: 24.190596

Get Altitude

Your individual vCard QR Code

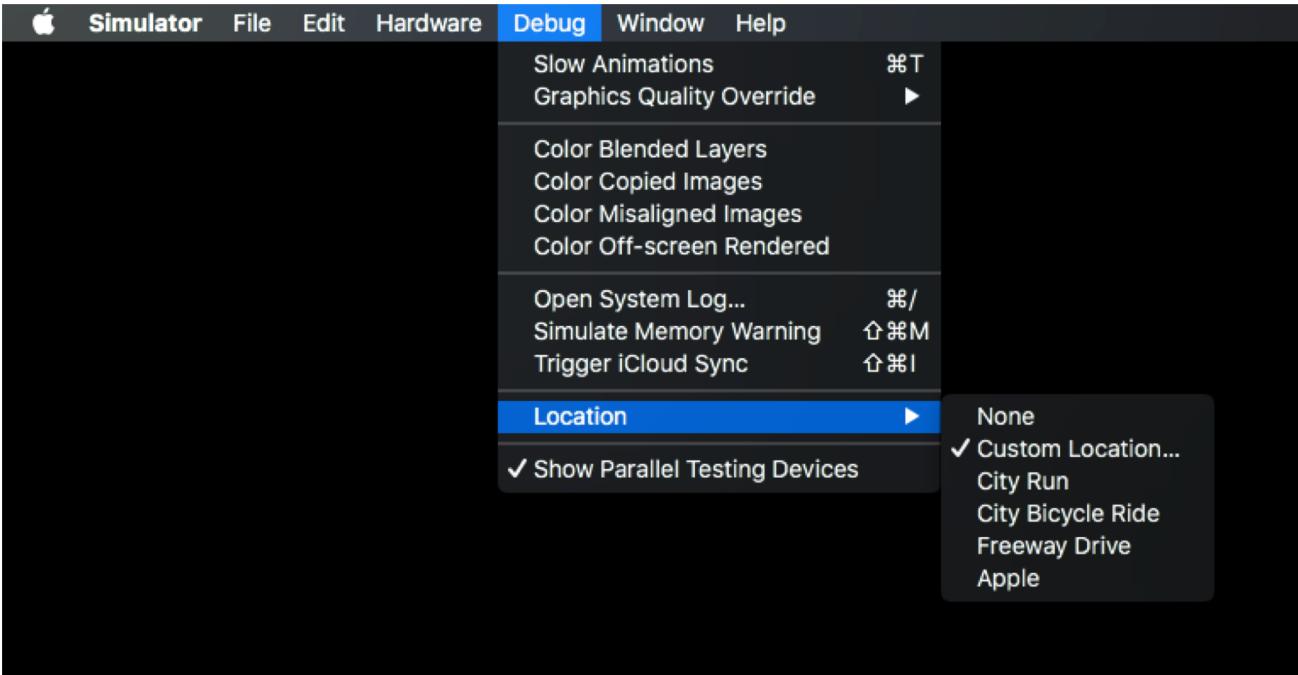
Modify the Stored Links or Files Without Having To Generate and Print the Codes Again QR Code Generator PRO

OPEN

Get your location

Follow steps: <https://ej.uz/4hm1>

Simulate location on simulator



Draw direction

```
import MapKit
import UIKit

class ViewController: UIViewController, MKMapViewDelegate {
    @IBOutlet var mapView: MKMapView!

    override func viewDidLoad() {
        super.viewDidLoad()
        mapView.delegate = self

        let request = MKDirections.Request()
        request.source = MKMapItem(placemark: MKPlacemark(coordinate: CLLocationCoordinate2D(latitude: 40.7127, longitude: -74.0059), addressDictionary: nil))
        request.destination = MKMapItem(placemark: MKPlacemark(coordinate: CLLocationCoordinate2D(latitude: 37.783333, longitude: -122.416667), addressDictionary: nil))
        request.requestsAlternateRoutes = true
        request.transportType = .automobile

        let directions = MKDirections(request: request)
        directions.calculate { [unowned self] response, error in
            guard let unwrappedResponse = response else { return }

            for route in unwrappedResponse.routes {
                self.mapView.addOverlay(route.polyline)
                self.mapView.setVisibleMapRect(route.polyline.boundingMapRect, animated: true)
            }
        }
    }

    func mapView(_ mapView: MKMapView, rendererFor overlay: MKOverlay) -> MKOverlayRenderer {
        let renderer = MKPolylineRenderer(polyline: overlay as! MKPolyline)
        renderer.strokeColor = UIColor.blue
        return renderer
    }
}
```

Maps and Location task

