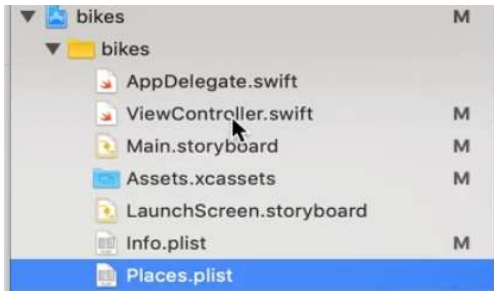


# location demo

Tuesday, April 2, 2019 5:13 PM

	Key	Type	Value
	▼ Root	Array	(3 items)
	▼ Item 0	Dictionary	(3 items)
	Name	String	Pete's house
	Latitude	Number	33.6525
	Longitude	Number	-85.8292
	▶ Item 1	Dictionary	(4 items)
	▶ Item 2	Dictionary	(3 items)

// get access permission popup window

Key	Type	Value
▼ Information Property List	Dictionary	(15 items)
Privacy - Location When In Use Usage Description	String	ohhaha

```
9  import UIKit
10 import CoreLocation
11
12 class ViewController: UIViewController, CLLocationManagerDelegate {
13
14     var places: [Place]?
15     var locationManager = CLLocationManager()
16     var previousLocation: CLLocation?
17
18     @IBOutlet weak var label: UILabel!
19
20     @IBAction func locationServiceBT(_ sender: UIButton) {
21         if CLLocationManager.authorizationStatus() == .authorizedAlways ||
22             CLLocationManager.authorizationStatus() == .authorizedWhenInUse {
23             startTracking()
24         } else {
25             // ask for Access
26             locationManager.requestWhenInUseAuthorization()
27         }
28     }
29
30     override func viewDidLoad() {
31         super.viewDidLoad()
32
33         locationManager.delegate = self
34         locationManager.desiredAccuracy = kCLLocationAccuracyNearestTenMeters
35
36         loadPlist()
37     }
```

```

39 func startTracking() {
40     locationManager.startUpdatingLocation()
41 }
42
43 func loadPlist() {
44     if let pURL = Bundle.main.url(forResource: "Places", withExtension: "plist") {
45         // decode
46         if let data = try? Data(contentsOf: pURL) {
47             places = try? PropertyListDecoder().decode([Place].self, from: data)
48
49             if let ps = places {
50                 for place in ps {
51                     print(place)
52                 }
53             }
54         }
55     }
56 }
57
58 func locationManager(_ manager: CLLocationManager, didUpdateLocations locations:
59     [CLLocation]) {
60     // get current location
61     let latest = locations.last
62     if let loc = previousLocation {
63         let dist = loc.distance(from: latest!)
64         label.text = String(format: "%.1f meters", dist)
65     } else {
66         previousLocation = latest
67         label.text = "0 meters"
68     }
69 }
70
71 func locationManager(_ manager: CLLocationManager, didChangeAuthorization status:
72     CLAuthorizationStatus) {
73     if CLLocationManager.authorizationStatus() == .authorizedAlways ||
74         CLLocationManager.authorizationStatus() == .authorizedWhenInUse {
75         startTracking()
76     }
77 }

```