



# Where's my Meeting? Indoor Routing and Tracking with Xamarin iOS

Mara Stoica



# Introducing Example Apps

# Example Apps Group

A little bit about us:

- New group started in 2016
- We build apps with the Runtime SDKs
- Currently .NET and Android
- Planning on adding iOS in the near future

# Example Apps

## What we have so far:

- **3 Android apps: Maps App, Nearby App and EMU App**
- **1 .NET app: Indoor Routing App**

## What we're working on this year:

- **Android: Offline Mapbook, Data Collector**
- **.NET: Offline Mapbook (WPF), Maps App (all platforms)**

## Where to Find Example Apps

Developers site for each SDK under Featured Apps:

- Android: <https://developers.arcgis.com/android/>
- .NET: <https://developers.arcgis.com/net/>

# Indoor Routing Application



# Demo: Routing Around the Esri Campus

# Making it Your Own

**Keyword: Customizable!!!**

- Author your own data
- Export it to a Mobile Map Package
- Change App Settings
- Done!



Photo Credit: [ATOMIC Hot Links Flickr](#) via [Compfight cc](#)



# Indoor Routing - Architecture

*Palm  
Springs*

**Let's make a Palm  
Springs map**

## Step 1 – Create the Data

A set of handy tools for converting indoor CAD to GIS released this month:

1. CAD to GIS Python tool
2. Indoor Network Creation tools

<http://esriurl.com/12304>

## **Step 2 – Make your Mobile Map Package**

- 1. Symbolize the layers**
- 2. Create locator(s)**
- 3. Create basemap (for fully offline)**
- 4. Create Mobile Map Package**
- 5. Upload Mobile Map Package to Portal**

## Step 3 – Change App Settings

```
appSettings.PortalItemID = "52346d5fc4c348589f976b6a279ec3e6";
appSettings.PortalItemName = "RedlandsCampus.mmpk";
appSettings.MmpkDownloadDate = new DateTime(1900, 1, 1);
appSettings.HomeLocation = "Set home location";
appSettings.IsLocationServicesEnabled = false;
appSettings.IsPreferElevatorsEnabled = false;
appSettings.RoomsLayerIndex = 1;
appSettings.FloorplanLinesLayerIndex = 2;
appSettings.RoomsLayerMinimumZoomLevel = 750;
appSettings.RoomsLayerFloorColumnName = "FLOOR";
appSettings.MapViewMinScale = 100;
```

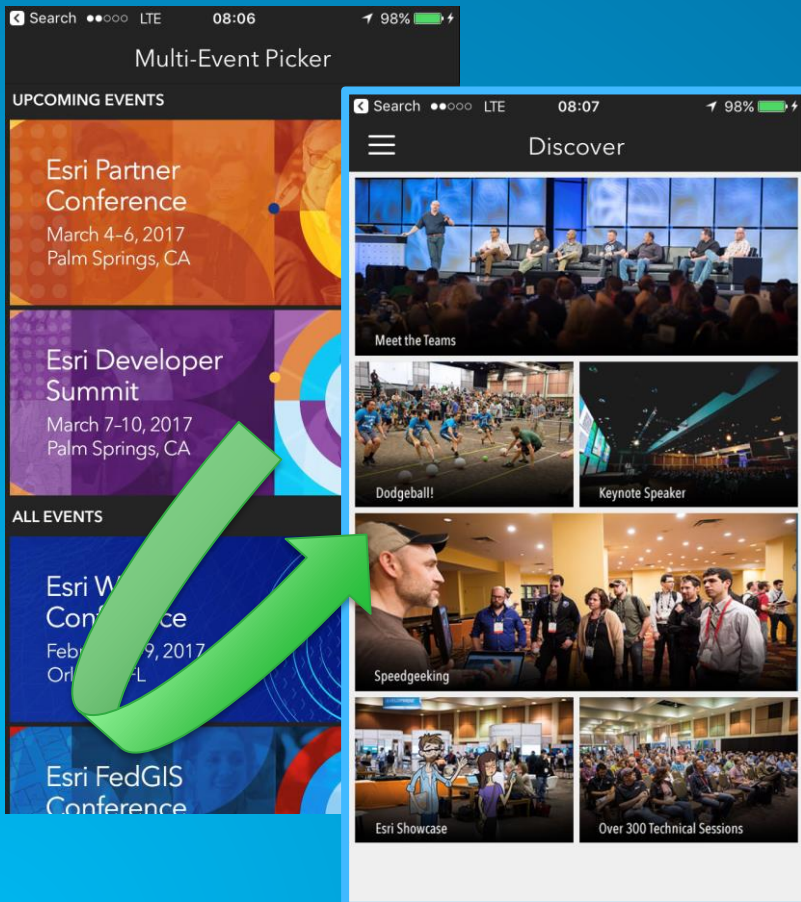
## Step 4 – Run the App

1. **Uninstall the app (on device ) or delete AppSettings.xml file (on simulator)**
2. **Run App**

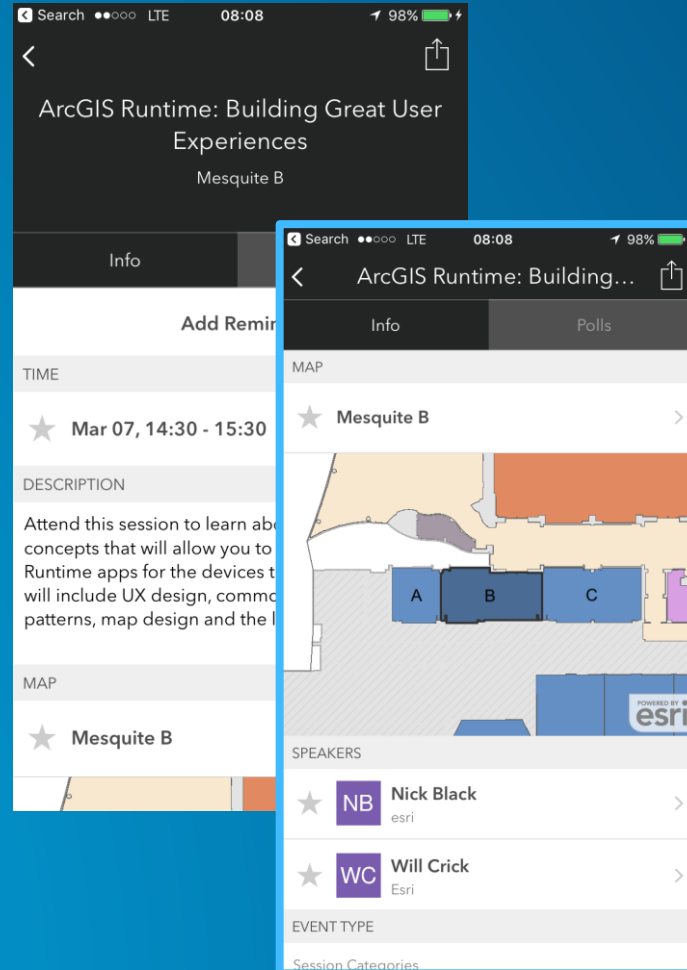
# Resources

# Please Take Our Survey! – No more memorizing Session ID numbers!! 😊

Download the Esri Events app and find your event

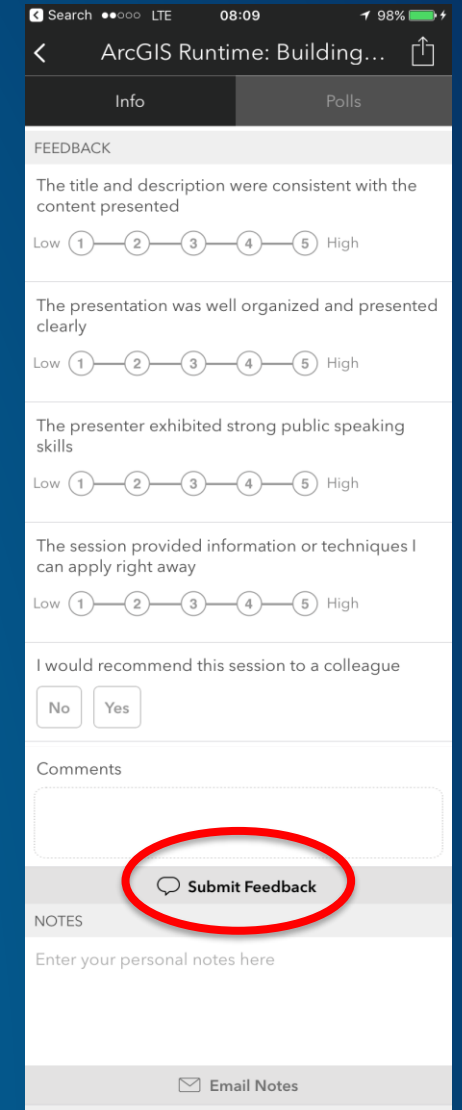


Select the session you attended



Scroll down to the "Feedback" section

Complete Answers, add a Comment, and Select "Submit"





# Resources

## Xamarin

- **Xamarin University**
- <https://developer.xamarin.com/>

## ArcGIS Runtime for Xamarin

- <https://developers.arcgis.com/net/>
- <https://geonet.esri.com> search for Xamarin

## Mara Stoica

- **Twitter:** @codergri
- **Email:** mstoica@esri.com

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