



Esri International Developer Summit
Palm Springs, CA

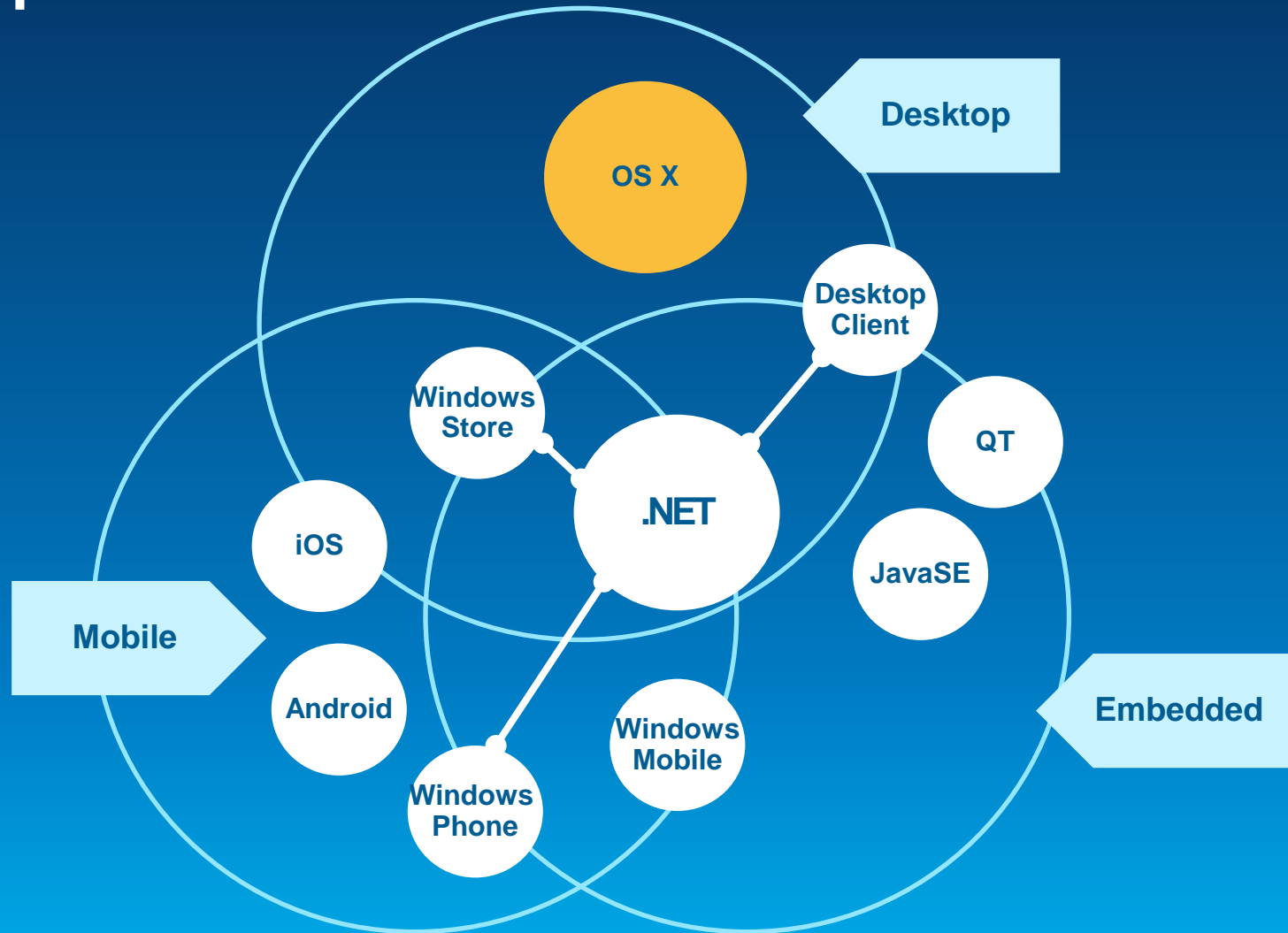
Building Apps using the Runtime SDK for OS X

Suganya Baskaran and Mary Harvey

Agenda

- **Introduce the SDK**
- **Xcode IDE**
- **Functional areas**
 - **Offline geocoding**
 - **Displaying feature information**
 - **Oauth**
- **Toolkit**
- **Instruments**
- **Licensing**

Runtime platforms



Images Courtesy of Apple

ArcGIS Runtime

Runtime built using C++

EXPLOITS THE CAPABILITIES OF THE DEVICE

Functionality exposed to developers via an API
native to the platform

INTUITIVE TO LEARN

Common functionality set and conceptual model

EASES MULTI PLATFORM DEVELOPMENT

Xcode and Sample Application



Where am I going to?

```
(IBAction)searchAction:(id)sender {
    if ([self.searchField.stringValue isEqualToString:@""]) {
        NSDictionary *addressDictionary = [self.searchField.stringValue dictionaryWithObjectsAndKeys:@"", @"", @"", @"", @""];
        AGSLocationsForAddressParameters *locationsForAddressParameters = [[AGSLocationsForAddressParameters alloc] initWithAddressParameters:addressDictionary];
        [self.locator locationFromAddressParameters:locationsForAddressParameters completionHandler:^(AGSLocation *location) {
            [self.mapView.spatialReferenceSystem addLocation:location];
        }];
    }
}
```

Where am I going to?

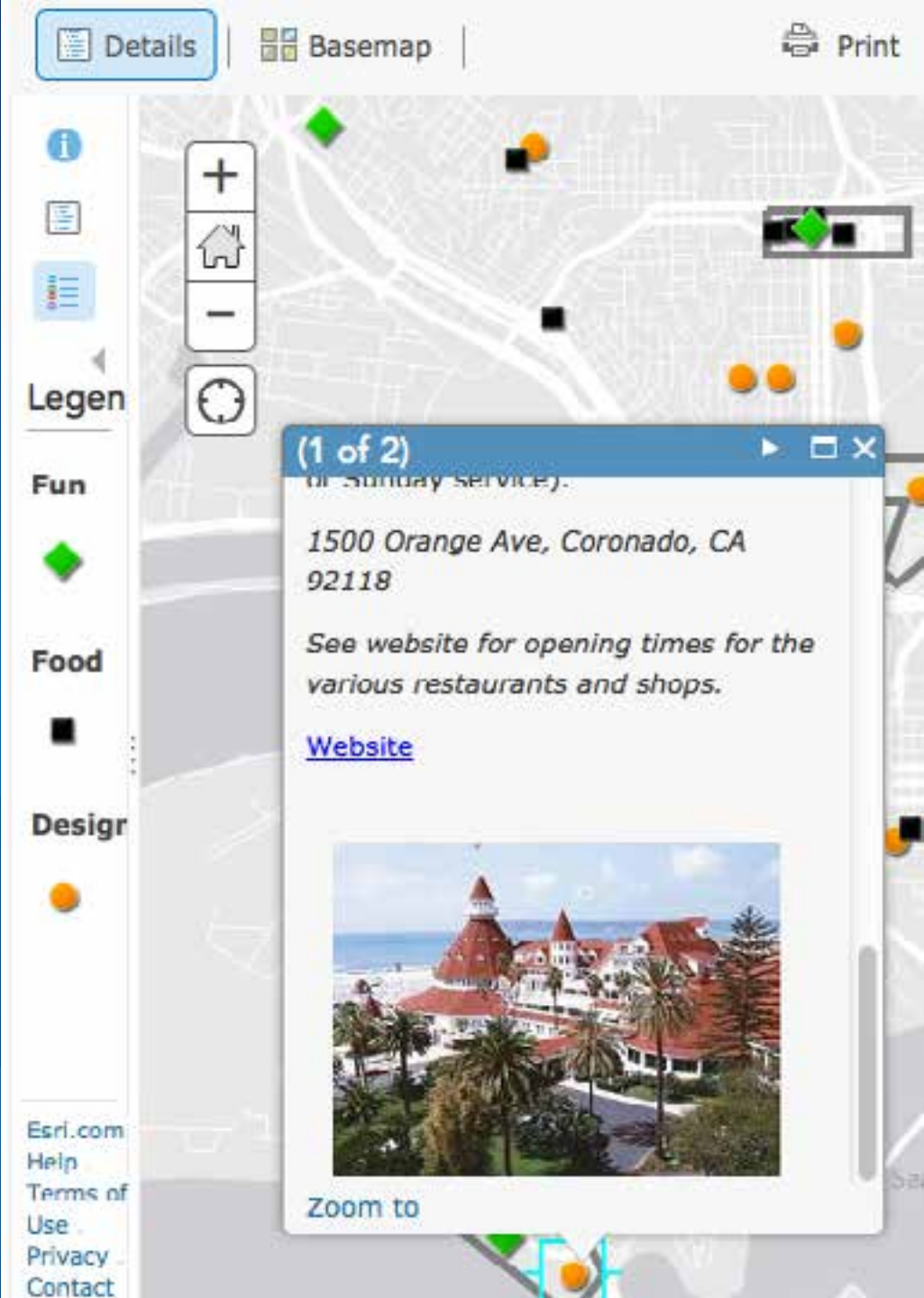


Locator Task

- **Instantiate the Locator**
- **Path to the Locator files on disk**
- **Retain the Locator (Strong)**
- **Adopt the Locator Delegate protocol**
- **Implement the Locator Delegate method**
 - **didFindLocationForAddress**
 - **didFindAddressForLocation**

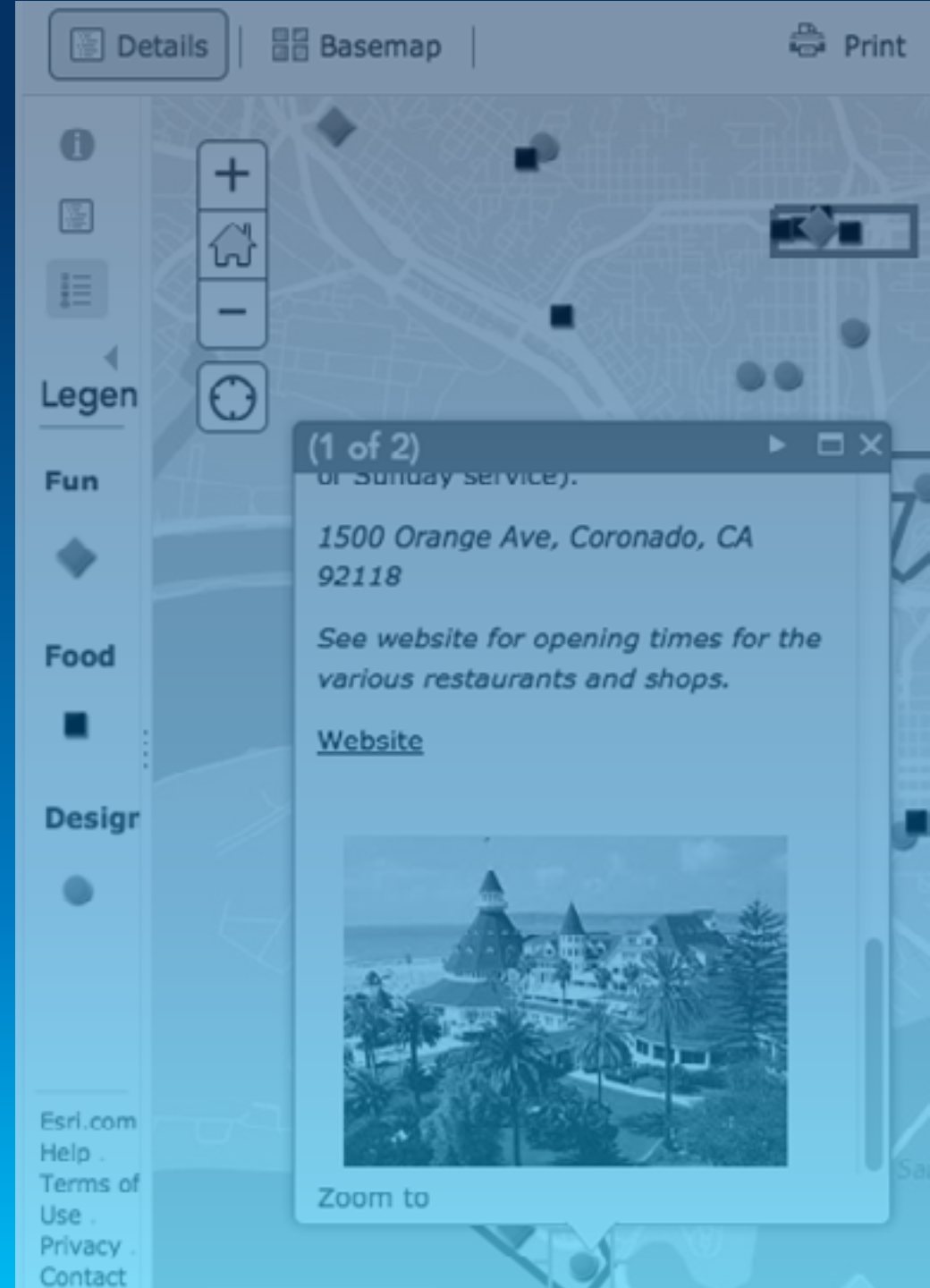


Popovers and Popups



Popups

- Instantiate a webmap
- Fetch its popups
- Add popups to popups container view controller
- Display popups container view controller in a custom popover view



OAuth Login to ArcGIS Online

Sign In

esri

Username

Password

SIGN IN

[Forgot Username or Password?](#)

OAuth Login Test developed by:



Apps Group Org

Developer Summit
Organizational
Account for the
purposes of providing

OAuth

- Instantiate OAuth View Controller with URL and client ID
- Get credential from OAuth completion block
- Load portal with new credential

Sign In

esri

Username

Password

SIGN IN

[Forgot Username or Password?](#)

OAuth Login Test developed by:



Apps Group Org

Developer Summit
Organizational
Account for the
purposes of providing

Toolkit

Sign In

Gallery

ArcGIS

Runtime Preview

Featured Content



Imagery

esri

★★★★★ 20 ratings

OPEN

DETAILS



Streets

esri

★★★

OPEN



Imagery with Labels

esri

★★★★☆ 6 ratings

OPEN

DETAILS



Light

esri

★★★

OPEN



Shaded Relief with La...

esri

★★★★☆ 2 ratings

OPEN

DETAILS



National

esri

★★★

OPEN

Instruments



Allocations



Leaks



Activity Monitor



Time Profiler



System Trace



Event Profiler



Core Data



UI Recorder

License levels and functionality

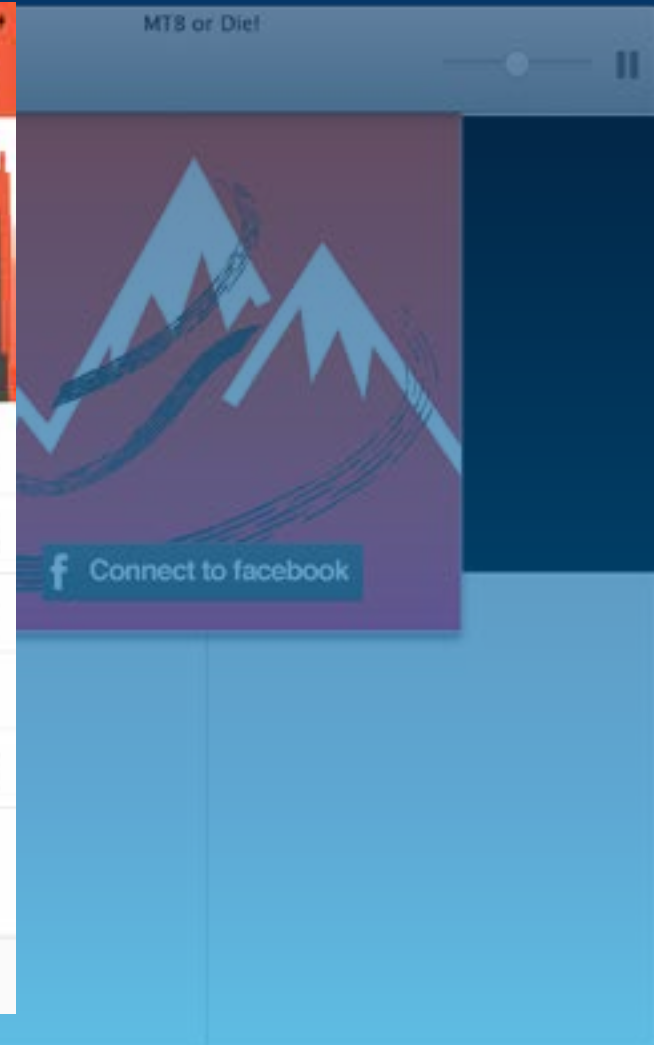
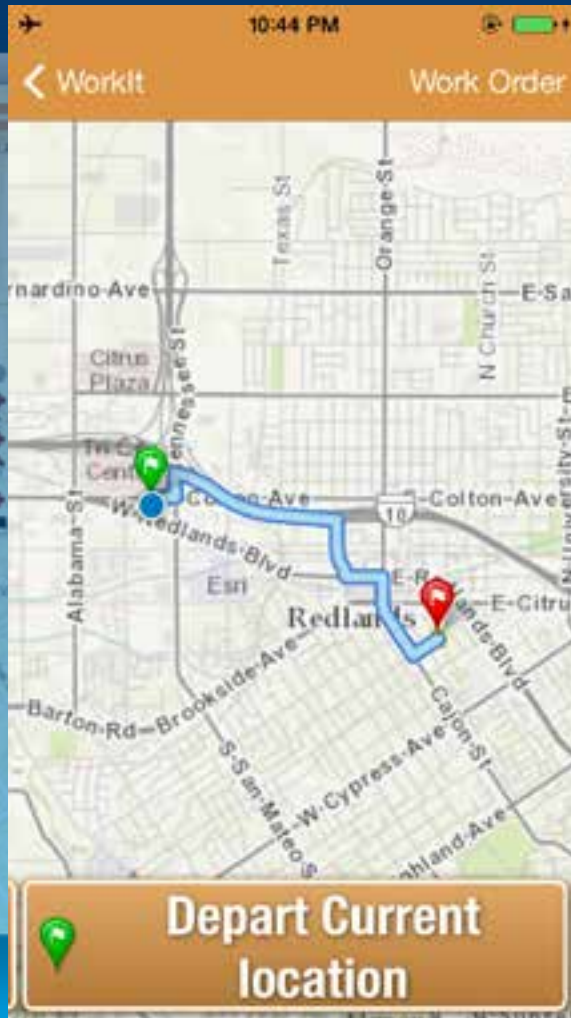
License Level	Available functionality
Developer (development and testing only)	All functionality (watermarks and debug messages will be generated, nag screens with local server*)
Basic	Connected - all functionality Offline - map viewing only
Standard	Connected and offline - all functionality, includes: <ul style="list-style-type: none">• Local locators (geocoding)• Local routing• Local geodatabase editing• Local geodatabase sync operations• Local server*

* For those SDKs that support it

#devsummit
Runtime Sessions



Offline



ArcGIS Runtime SDK sessions

Session Name	Day	Time	Location
Building Offline Apps with ArcGIS Runtime SDK – Part 1	Wednesday	4:00pm – 5:00pm	Primrose B
Building Offline Apps with ArcGIS Runtime SDK – Part 2	Wednesday	5:30pm – 6:30pm	Primrose B
The Road Ahead: ArcGIS Runtime SDKs	Thursday	8:30am – 9:30am	Primrose A
Everything (or Anything) You Wanted to Know about the ArcGIS Runtime SDKs	Thursday	10:00am – 11:00am	Primrose A
Building iOS Apps with ArcGIS Runtime SDK	Thursday	1:00pm – 2:00pm	Mesquite GH



Understanding our world.