Create Your Own Android App Tools Using ArcGIS Runtime SDK for Android

Dan O’Neill & Xueming Wu
Introductions

• What we do
  - Alaska – Dan O’Neill - @jdoneill - https://github.com/doneill

• What you do

• Session Surveys
Agenda

• Application Toolkit
  - What can you do now
    - MapViewHelper
      - Show Callout, Popups, Geometries
    - GeocodeHelper
      - Find Place & Address
  - What’s coming
    - Measure Tool
    - Geocode Tool
Application Toolkit

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What Can You Do Now

- **MapViewHelper**
  - Simplification developer pattern for showing Geometries

**Instantiate a MapViewHelper class**

```java
// Create a MapView Helper for use in MapView listeners set below.
mMapViewHelper = new MapViewHelper(mMapView);
```

**Add a Geometry with Graphic**

```java
mMapViewHelper.addMarkerGraphic(34.056695, -117.195693, "ESRI",
   "World Headquarters", null, mIcon, false, 0);
```
Geocode Tool

Xueming Wu
Geocode Tool

- Self-contained
- Easy to integrate into your own apps
- Easy to customize
GeoCode Tool Demo

Xueming Xu
public boolean onOptionsItemSelected(MenuItem item) {
    switch (item.getItemId()) {
    case R.id.action_geocoding:
        Locator locator = Locator.createOnlineLocator();
        GeocodeTool geocodeTool = new GeocodeTool(mMap, locator);
        startActionMode(geocodeTool);
        break;

    default:
        break;
    }
    return super.onOptionsItemSelected(item);
}
Geocode Tool - customization

<string name="query_hint">Find a place</string>
<string name="search_title">Search</string>
<string name="suggestion_text">Suggestion</string>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
        xmlns:tools="http://schemas.android.com/tools"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">
    <ImageView
            android:id="@+id/suggestion_item_icon"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:src="@android:drawable/star_off" />
    <TextView
            android:id="@+id/suggestion_item_address"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/suggestion_text" />
</LinearLayout>
Measure Tool

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Analysis – Measure Tool

• Measure Tool is self contained
• Easy to integrate into your own app
• Class in Application Toolkit
• Customizable

MainActivity

strings.xml

actions.xml

Application Toolkit
MeasuringTool
Measure Tool Demo

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## ArcGIS Runtime SDK sessions Thursday

<table>
<thead>
<tr>
<th>Session Name</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create your own Android App Tools Using ArcGIS Runtime SDKs</td>
<td>9:30am – 10:00am</td>
<td>Developer Island (demo theatre)</td>
</tr>
<tr>
<td>Dive Deep into the Performance of the ArcGIS Runtime SDKs Core Display Architecture</td>
<td>10:30am – 11:00am</td>
<td>Developer Island (demo theatre)</td>
</tr>
<tr>
<td>10 Things you Didn’t Know You Can Do with ArcGIS Runtime SDK for iOS</td>
<td>11:30am – 12:00pm</td>
<td>Developer Island (demo theatre)</td>
</tr>
<tr>
<td>Animating Thousands of Graphics and Features with ArcGIS Runtime SDK for Java SE</td>
<td>12:30pm – 1:00pm</td>
<td>Developer Island (demo theatre)</td>
</tr>
<tr>
<td>Developing Mobile Apps with ArcGIS Runtime SDK for .NET</td>
<td>10:15am – 11:30am</td>
<td>Room 05 A</td>
</tr>
<tr>
<td>ArcGIS Runtime SDKs: The Road Ahead</td>
<td>1:30pm – 2:45pm</td>
<td>Room 07 A/B</td>
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Thank You

• Please fill out the session survey:

Offering ID: 1868

Online – www.esri.com/ucsessionsurveys