Japandroid Meetup 2011 July 26th

Maps - Start through Intent

Code:

https://maps.google.com/?q=35.689479,139.707411



Will show which app to open (Browser or Map application)

Maps - Start through Intent 2

Code:

```
String latitude = "35.689479";
String longitude = "139.707411";
Intent intent2 = new Intent(Intent.ACTION_VIEW,
                     Uri.parse("geo:" + latitude + ","
                               + longitude + "?z=17"));
startActivity(intent2);
```

geo:35.689479,139,707411?z=17



----> Will open Map application only

Maps - Show (Image)

```
Internet Permission in <manifest ...>:
<uses-permission android:name="android.permission.INTERNET" />
```

Code:

```
https://maps.google.com/maps/api/staticmap?
center=35.689479,139.707411
&zoom=17
&size=400x300
&sensor=true
&markers=35.689479,139.707411
```

Maps - Show (Image) DownloadImageTask

Code:

```
private class DownloadImageTask extends AsyncTask<Void, Void, Bitmap> {
    private String mUrl;
    public DownloadImageTask(String url) {
        mUrl = url;
    @Override
    protected void onPreExecute() {
        findViewById(R.id.progress).setVisibility(View.VISIBLE);
    @Override
    protected Bitmap doInBackground(Void... params) {
            return BitmapFactory.decodeStream(new URL(mUrl).openStream());
        } catch (MalformedURLException e) {
        } catch (IOException e) {
        return null;
    @Override
    protected void onPostExecute(Bitmap result) {
        findViewById(R.id.progress).setVisibility(View.GONE);
       if (result != null) {
            ImageView image = (ImageView) findViewById(R.id.image_map);
            image.setImageBitmap(result);
            image.setVisibility(View.VISIBLE);
            Toast.makeText(JapandroidMapsActivity.this, "Could not download image",
                    Toast.LENGTH_LONG).show();
```

Maps - Show (MapView)

http://developer.android.com/quide/tutorials/views/hello-mapview.html

- Set Build Target to
 - Google APIs (2.1-update1)
- Add to manifest <application ...>

<uses-library android:name="com.google.android.maps" />

Add to manifest <manifest ...>

<uses-permission android:name="android.permission.INTERNET" />

Add in your layout

```
<com.google.android.maps.MapView
    android:id="@+id/mapview"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:clickable="true"
    android:apiKey="0y1T9ys7F8EjCDDT7zpKHd0hgzCWezwbZowqhHg"
    />
```

- Get Maps API Key
 - http://code.google.com/android/add-ons/google-apis/mapkey.html

Maps - Show (MapView)

http://developer.android.com/guide/tutorials/views/hello-mapview.html

Let your Activity extend MapActivity

public class JapandroidMapsActivity extends MapActivity {

Add required method isRouteDisplayed

```
@Override
protected boolean isRouteDisplayed() {
    return false;
}
```

Get map and set it up correctly



This centers the map at location, but does not show a marker yet

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Maps - Show (MapView)

http://developer.android.com/guide/tutorials/views/hello-mapview.html

Add class extending ItemizedOverlay<OverlayItem>

```
package ch.pboos.japandroid.maps;
import java.util.ArrayList;
import android.graphics.drawable.Drawable;
import com.google.android.maps.ItemizedOverlay;
import com.google.android.maps.OverlayItem;
public class MapItemizedOverlay extends ItemizedOverlay
    private ArrayList<OverlayItem> mOverlays = new ArrayList<OverlayItem>();
    public MapItemizedOverlay(Drawable defaultMarker) {
        super(boundCenterBottom(defaultMarker));
    public void addOverlay(OverlayItem overlay) {
       mOverlays.add(overlay);
        populate();
    @Override
    protected OverlayItem createItem(int i) {
        return mOverlays.get(i);
    @Override
    public int size() {
        return m0verlays.size();
```

Maps - Show (MapView)

http://developer.android.com/guide/tutorials/views/hello-mapview.html

Add a marker through the created ItemizedOverlay class

```
List<Overlay> mapOverlays = mMapView.getOverlays();
Drawable drawable =
    this.getResources().getDrawable(R.drawable.map_pin);
MapItemizedOverlay itemizedOverlay =
    new MapItemizedOverlay(drawable);
OverlayItem overlayitem = new OverlayItem(point, "", "");
itemizedOverlay.addOverlay(overlayitem);
mapOverlays.add(itemizedOverlay);
```

Code example

https://github.com/pboos/ GoogleMapExamples