Android Intents Examples

Notes are based on:

Android Developers

http://developer.android.com/index.html

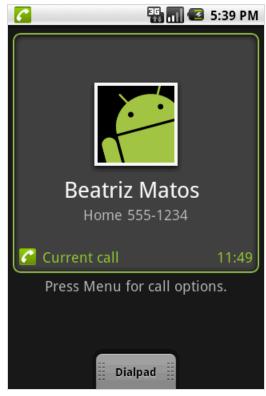


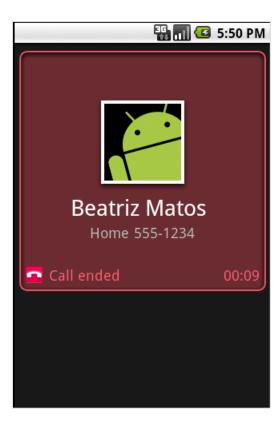


```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:orientation="vertical"
    android:layout width="fill parent"
                                                                                    📆 📶 🕝 5:38 PM
    android:layout height="fill parent" >
                                                                   IntentDemo1
<TextView
                                                                   This is Activity1
      android:id="@+id/label1"
      android:layout width="fill parent"
                                                                    tel:555-1234
      android:layout height="wrap content"
      android:background="#ff0000cc"
                                                                     Make Phone Call
      android:text="This is Activity1"
      android:textStyle="bold"
      android:textSize="20sp"
<EditText
      android:id="@+id/text1"
      android:layout width="fill parent"
      android: layout height="54px"
      android:text="tel:555-1234"
      android:textSize="18sp" />
<Button
      android:id="@+id/btnCallActivity2"
      android:layout width="149px"
      android:layout height="wrap content"
      android:text="Make Phone Call"
      android:textStyle="bold" />
</LinearLayout>
```











```
//IntentDemo1 Intent: making a phone call
package edu.scu.intents;
import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.*;
public class IntentDemo1 extends Activity {
    TextView label1;
    EditText text1;
    Button btnCallActivity2;
```



```
@Override
   public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   try {
       setContentView(R.layout.main);
      label1 = (TextView) findViewById(R.id.label1);
      text1 = (EditText) findViewById(R.id.text1);
      btnCallActivity2 = (Button) findViewById(R.id.btnCallActivity2);
       btnCallActivity2.setOnClickListener(new ClickHandler());
   catch (Exception e) {
       Toast.makeText(getBaseContext(), e.getMessage(),
                      Toast.LENGTH LONG).show();
  }//onCreate
```



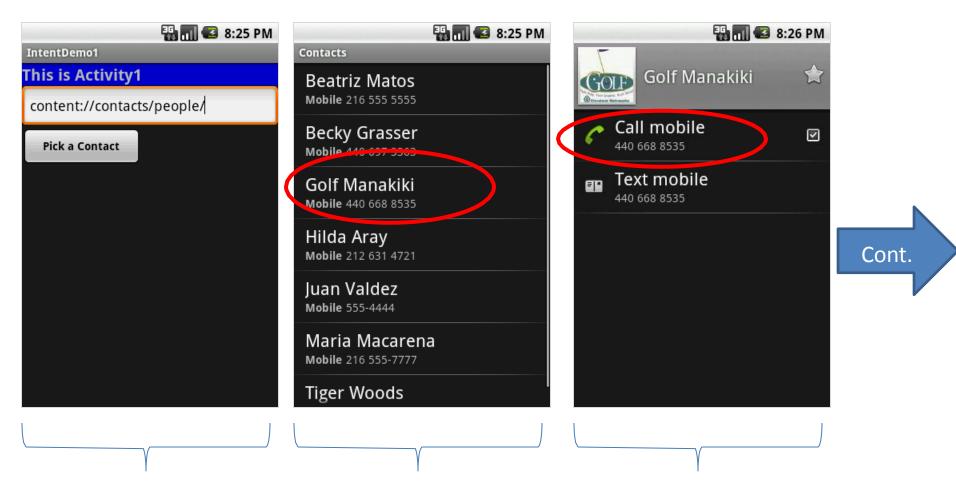
```
private class ClickHandler implements OnClickListener {
         @Override
        public void onClick(View v) {
          try {
             // myActivity2 places a phone call
             // for ACTION CALL or ACTION DIAL
             // use 'tel:' formatted data: "tel:555-1234"
             // for ACTION VIEW use data: "http://www.youtube.com"
             // (you also need INTERNET permission - see Manifest)
             String myData = text1.getText().toString();
             Intent myActivity2 = new Intent(Intent.ACTION DIAL,
                                              Uri.parse(myData));
             startActivity(myActivity2);
          catch (Exception e) {
             Toast.makeText(getBaseContext(), e.getMessage(),
             Toast.LENGTH LONG).show();
         }//onClick
    }//ClickHandler
}//IntentDemo1
```



```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
      package="edu.scu.intents"
      android:versionCode="1"
      android:versionName="1.0">
<application android:icon="@drawable/icon"</pre>
             android:label="@string/app_name">
 <activity android:name=".IntentDemo1"</pre>
             android:label="@string/app name">
    <intent-filter>
      <action android:name="android.intent.action.MAIN" />
      <category android:name="android.intent.category.LAUNCHER" />
   </intent-filter>
  </activity>
  </application>
    <uses-sdk android:minSdkVersion="3" />
</manifest>
```

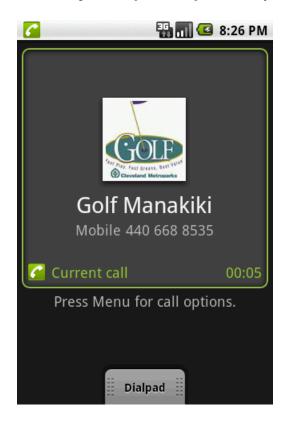


Example2. Let's play golf - *Call for a tee-time*.

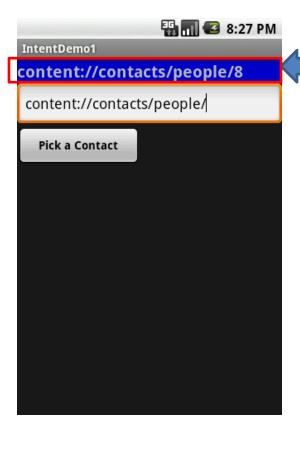




Example2 (cont.) Let's play golf - Call for a tee-time







Place the call

Terminate the call

Selected contact's URI



```
//IntentDemo2_Intent: making a phone call
//receiving results from a sub-activity
package edu.scu.intents;
import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.*;

public class IntentDemo2 extends Activity {
    TextView label1;
    EditText text1;
    Button btnCallActivity2;
```



```
@Override
  public void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   try {
           setContentView(R.layout.main);
           label1 = (TextView) findViewById(R.id.label1);
           text1 = (EditText) findViewById(R.id.text1);
           btnCallActivity2 = (Button) findViewById(R.id.btnPickContact);
           btnCallActivity2.setOnClickListener(new ClickHandler());
   catch (Exception e) {
            Toast.makeText (getBaseContext(),
            e.getMessage(), Toast.LENGTH LONG).show();
 }//onCreate
```



```
private class ClickHandler implements OnClickListener {
   @Override
   public void onClick(View v) {
       try {
            // myData refer to: content://contacts/people/
            String myData = text1.getText().toString();
            //you may also try ACTION VIEW instead
            Intent myActivity2 = new Intent(Intent.ACTION PICK,
                                   Uri.parse(myData));
           // start myActivity2.
           // Tell it that our requestCodeID (or nickname) is 222
           startActivityForResult (myActivity2, 222);
             catch (Exception e) {
           label1.setText(e.getMessage());
   }//onClick
  }//ClickHandler
```



```
@Override
protected void onActivityResult(int requestCode,
                                                           Listener
                                 int resultCode,
                                 Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    try {
         // use requestCode to find out who is talking back to us
         switch (requestCode) {
             case (222): {
                  // 222 is our friendly contact-picker activity
                  if (resultCode == Activity.RESULT OK) {
                      String selectedContact = data.getDataString();
                      // it will return an URI that looks like:
                      // content://contacts/people/n
                      // where n is the selected contacts' ID
                      label1.setText(selectedContact.toString());
                      //show a 'nice' screen with the selected contact
                      Intent myAct3 = new Intent (Intent.ACTION VIEW,
                                                 Uri.parse(selectedContact));
                      startActivity(myAct3);
```



```
else {
                      //user pressed the BACK button
                      label1.setText("Selection CANCELLED "
                                      + requestCode + " " + resultCode);
                      break;
        }//switch
    catch (Exception e) {
        Toast.makeText(getBaseContext(), e.getMessage(),
                        Toast.LENGTH LONG).show();
  }// onActivityResult
}//IntentDemo2
```



```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:orientation="vertical"
    android:layout width="fill parent"
                                                                                     ₩ 📶 🛂 8:25 PM
    android:layout height="fill parent" >
                                                                      IntentDemo1
     <TextView
                                                                      This is Activity1
          android:id="@+id/label1"
                                                                      content://contacts/people/
          android:layout width="fill parent"
          android: layout height="wrap content"
          android:background="#ff0000cc"
                                                                        Pick a Contact
          android:text="This is Activity1"
          android:textStyle="bold"
          android:textSize="20sp"/>
     <EditText
          android:id="@+id/text1"
          android:layout width="fill parent"
          android:layout height="54px"
          android:text="content://contacts/people/"
          android:textSize="18sp" />
     <Button
          android:id="@+id/btnPickContact"
          android:layout width="149px"
          android:layout height="wrap content"
          android:text="Pick a Contact"
          android:textStyle="bold" />
</LinearLayout>
```



Example3. Showing Pictures and Video - Calling a sub-activity, receiving results.

```
private void showSoundTracks() {
                                                          All videos and all still images
  Intent myIntent = new Intent();
  myIntent.setType("video/*, images/*");
  myIntent.setAction(Intent.ACTION GET CONTENT);
  startActivityForResult(myIntent, 0);
}//showSoundTracks
@Override
protected void onActivityResult(int requestCode, int resultCode, Intent intent)
  super.onActivityResult(requestCode, resultCode, intent);
  if ((requestCode == 0) && (resultCode == Activity.RESULT OK))
      { String selectedImage = intent.getDataString();
      Toast.makeText(this, selectedImage, 1).show();
      // show a 'nice' screen with the selected image
      Intent myAct3 = new Intent(Intent.ACTION VIEW, Uri.parse(selectedImage));
      startActivity(myAct3);
}//onActivityResult
```

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Example3. Showing Pictures and Video - Calling a sub-activity, receiving results.





Example4. Showing/Playing Sound Tracks - Calling a sub-activity, receiving results.

```
private void showSoundTracks() {
   Intent myIntent = new Intent();
   myIntent.setType("audio/mp3");
   myIntent.setAction(Intent.ACTION_GET_CONTENT);
   startActivityForResult(myIntent, 0);
}//showSoundTracks
```

The returned string value is similar to the following "content://media/external/audio/media/14"

ACTION_VIEW on that Uri would produce a result similar to the image on the right



