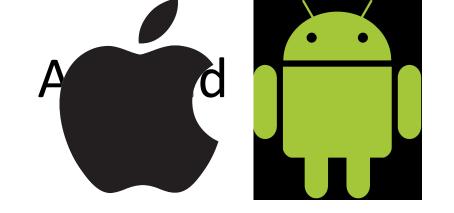
Android

Android



Android

- What can Android do and iOS can't?
- Some technical Android stuff

What can Android do and iOS can't?

...from the developer's point of view

Background stuff

Background stuff

Android:

Services

Background stuff

Android:

Services

iOS

 Only for: audio, location, VOIP, newsstandcontent, external-accesory, bluetooth central

Multiview support

Android

Apps can implement multiview support



Multiview support

Android

Apps can implement multiview support iOS

Multiview support

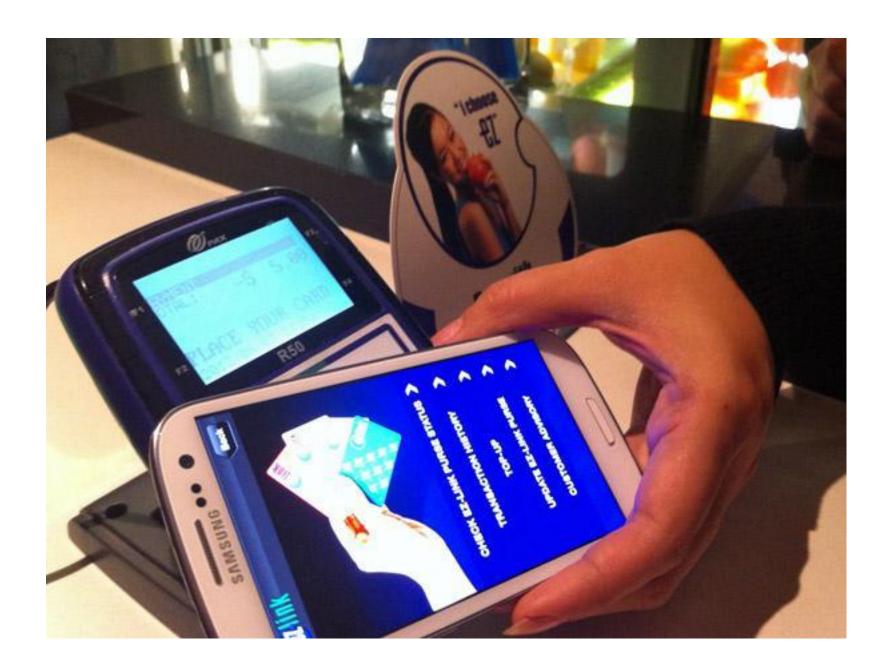
Android

Apps can implement multiview support iOS

NFC

NFC

 Set of standards for smartphones and similar devices to establish radio communication with each other by touching them together or bringing them into close proximity, usually no more than a few centimeters





Connect automatically to wireless

- Connect automatically to wireless
- Access to information (missed calls, messages)

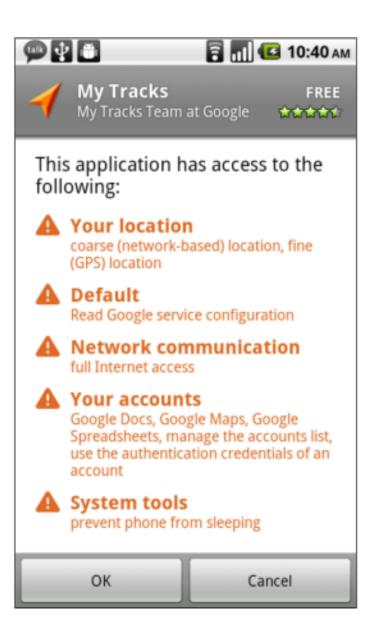
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• ...

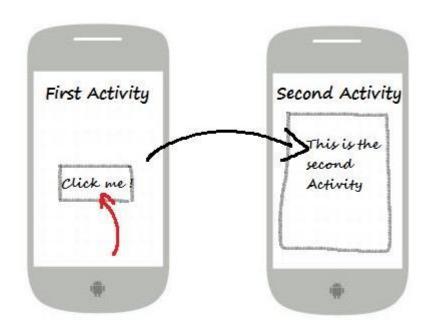




- Java
- Eclipse

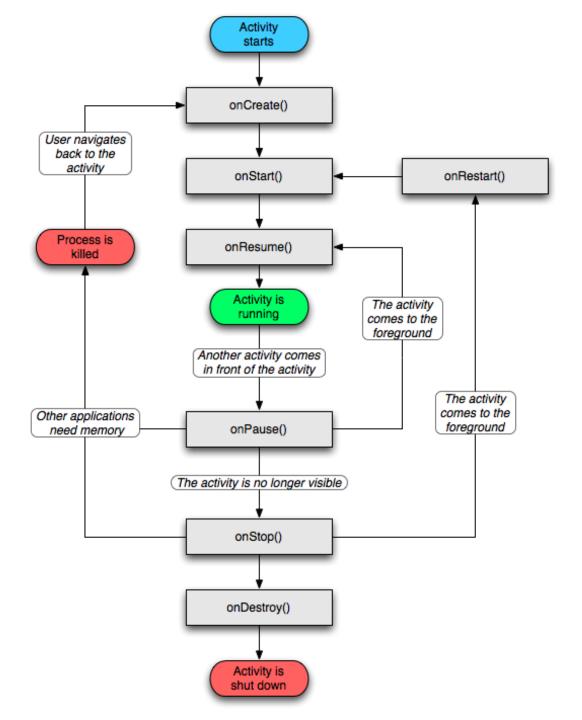
• The backbone: Activities

• The backbone: Activities



- Activity
 - It's a class
 - It must be inherited

```
package com.example;
import android.app.Activity;
 import android.os.Bundle;
 public class MyActivity extends Activity
     @Override
     protected void onCreate(Bundle savedInstanceState)
         // TODO Auto-generated method stub
         super.onCreate(savedInstanceState);
     }
     @Override
     protected void onPause() {
         // TODO Auto-generated method stub
         super.onPause();
     }
     @Override
     protected void onDestroy()
         // TODO Auto-generated method stub
         super.onDestroy();
     }
     @Override
     public void onLowMemory() {
         // TODO Auto-generated method stub
         super.onLowMemory();
     }
```



Fragments

An "activity" in another activity

• User interface = XML

```
<?xml version="1.0" encoding="utf-8"?>
⊖ <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
      android:orientation="vertical"
     android:layout width="fill parent"
     android:layout height="fill parent"
     android:background="#ffffff" >
     <TextView
     android:layout width="fill parent"
     android:layout height="wrap content"
      android:textColor="#000000"
     android:text="This is Activity 1" />
         <Button android:text="Next"
         android:id="@+id/Button01"
         android:layout width="250px"
              android:textSize="18px"
         android:layout height="55px">
     </Button>
         <EditText
            android:id="@+id/editText1"
            android:layout width="fill parent"
            android:layout height="wrap content"
            android:inputType="textPersonName" >
            <requestFocus />
        </EditText>
         <EditText
            android:id="@+id/editText2"
            android:layout width="fill parent"
            android:layout height="wrap content"
            android:inputType="textPersonName" />
         <EditText
            android:id="@+id/editText3"
```

Events

 Events = when a button is pressed something happens

```
public class FriendsActivity extends Activity {
    Button locationsButton:
    Button friendsButton;
    Button scanButton;
    Button profileButton:
    Button searchButton;
    @Override
    public void onCreate(Bundle savedInstanceState)
        super.onCreate(savedInstanceState);
        setContentView(R.layout.friends_activity);
        locationsButton = (Button) findViewById(R.id.TAB_BAR_LOCATIONS_BUTTON);
        friendsButton = (Button) findViewById(R.id.TAB_BAR_FRIENDS_BUTTON);
        scanButton = (Button) findViewById(R.id.TAB_BAR_SCAN_BUTTON);
        profileButton = (Button) findViewById(R.id.TAB_BAR_PROFILE_BUTTON);
        searchButton = (Button) findViewById(R.id.TAB_BAR_SEARCH_BUTTON);
        locationsButton.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
                // TODO Auto-generated method stub
                Intent intent = new Intent(getApplicationContext(),LocationsActivity.class);
                startActivity(intent);
            }
       });
        scanButton.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
                // TODO Auto-generated method stub
                Intent intent = new Intent(getApplicationContext(),ScanQRCodeActivity.class);
                startActivity(intent);
            }
       });
        profileButton.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
```

XML Manifest file

presents essential information about the application to the Android system

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   package="com.example.feedspotandroidserver"
   android:versionCode="1"
   android:versionName="1.0" >
    <uses-sdk
        android:minSdkVersion="8"
        android:targetSdkVersion="17" />
    <uses-permission android:name="android.permission.INTERNET" />
    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@android:style/Theme.NoTitleBar" >
        <activity
            android:name="me.feedspot.view.LoginActivity"
            android:label="@string/app_name"
            android:screenOrientation="portrait" >
        </activity>
        <activity
            android:name="me.feedspot.view.TabBarController"
            android:screenOrientation="portrait">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity
            android:name="me.feedspot.view.RegisterScreenActivity"
            android:screenOrientation="portrait"></activity>
        <activity
            android:name="me.feedspot.view.ChangePasswordActivity"
            android:screenOrientation="portrait"></activity>
        <activity
            android:name="me.feedspot.view.TestStuffHere"
            android:screenOrientation="portrait"></activity>
        <activity
            android:name="me.feedspot.view.PlaceDetailsActivity"
            android:screenOrientation="portrait"></activity>
    </application>
```

That's it for today! Thank you!