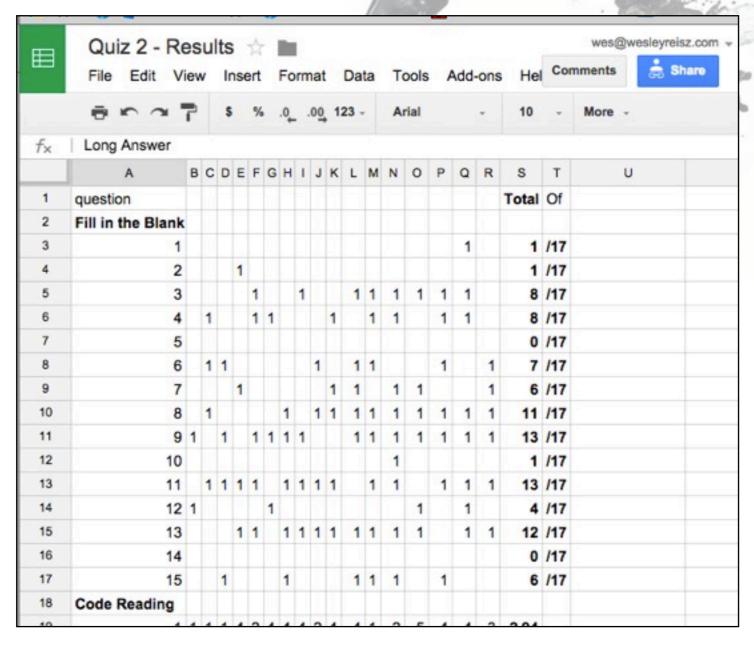


Agenda

- Review Test
- Android Services
- Android Notifications
- Not My Music Updates

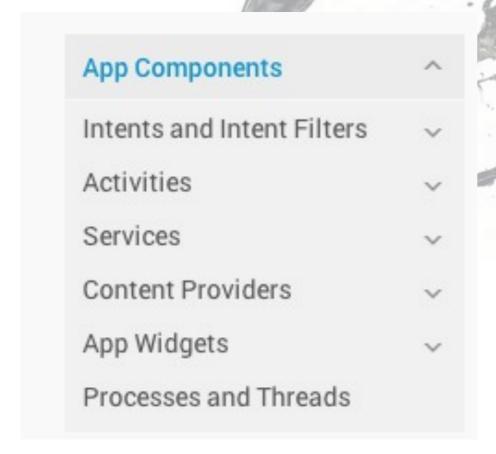
Review Test





http://bit.ly/11cgfP9

Android Basics



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

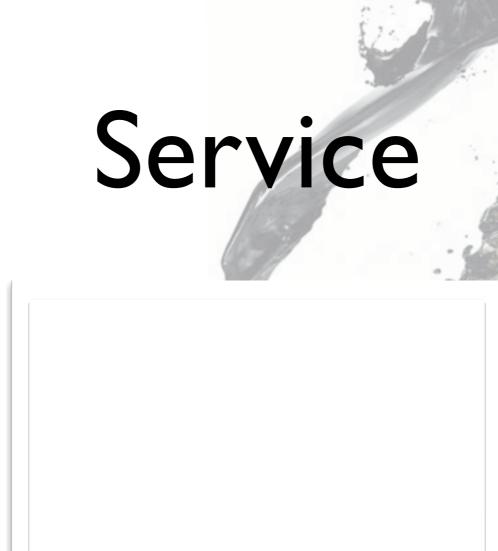


Android Service

A <u>Service</u> is an application component that can perform long-running operations in the background and does not provide a user interface. Another application component can start a service and it will continue to run in the background even if the user switches to another application.

Additionally, a component can bind to a service to interact with it and even perform interprocess communication (IPC).







Android Service: The Basics

To create a service, you must create a subclass of <u>Service</u> (or one of its existing subclasses)



Example

```
package com.wesleyreisz.myapplication;

pimport android.app.Service;
import android.content.Intent;
import android.os.IBinder;

/**

* Created by wesleyreisz on 11/16/14.

*/
public class MyService extends Service {
    @Override
    public IBinder onBind(Intent intent) {
        return null;
    }
}
```

OnBind

- onBind()
- The system calls this method when another component wants to bind with the service (such as to perform RPC), by calling bindService(). In your implementation of this method, you must provide an interface that clients use to communicate with the service, by returning an IBinder. You must always implement this method, but if you don't want to allow binding, then you should return null.

Important Methods

• <u>startService()</u>. Once this method executes, the service is started and can run in the background indefinitely. If you implement this, it is your responsibility to stop the service when its work is done, by calling <u>stopSelf()</u> or <u>stopService()</u>. (If you only want to provide binding, you don't need to implement this method.)

onCreate()

The system calls this method when the service is first created, to perform one-time setup procedures (before it calls either onStartCommand() or onBind()). If the service is already running, this method is not called.

onDestroy()

The system calls this method when the service is no longer used and is being destroyed. Your service should implement this to clean up any resources such as threads, registered listeners, receivers, etc. This is the last Fall the service receives.

Manifest

```
<manifest ... >
    <application ... >
        <service android:name=".ExampleService" />
        </application>
</manifest>
```





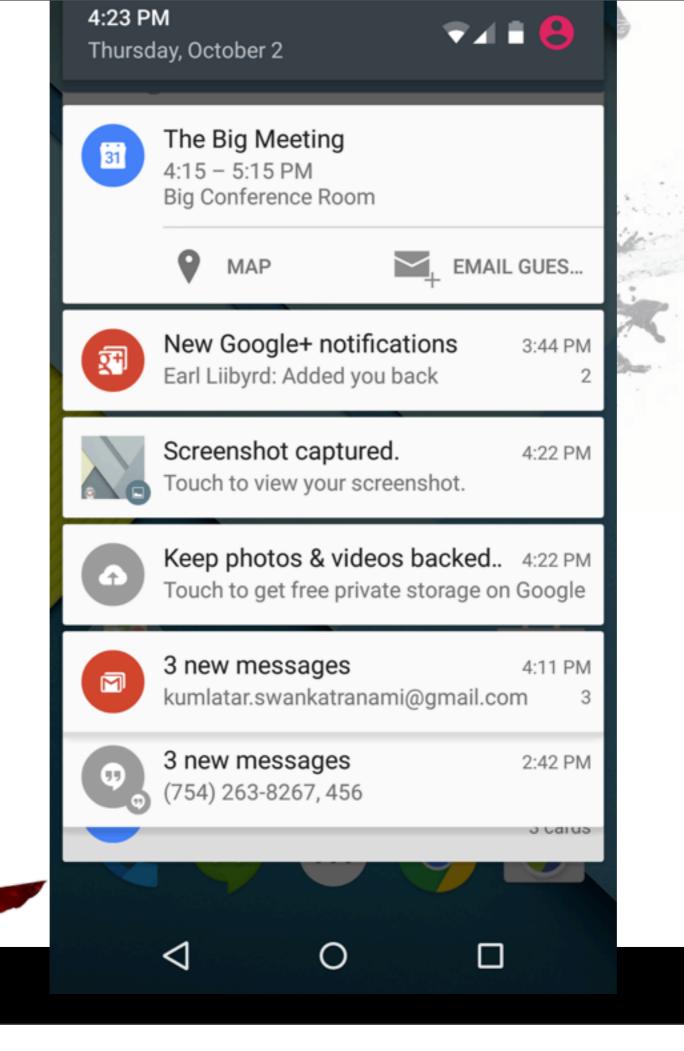
153ef72 added thread
093a1e0 blocked ui thread
2588168 example of workign service
4c406ba added presentation and added a service template
4c60786 initial project with Application Class



Notifications

A **notification** is a message you can display to the user outside of your application's normal UI. When you tell the system to issue a notification, it first appears as an icon in the notification area. To see the details of the notification, the user opens the notification drawer. Both the notification area and the notification drawer are system-controlled areas that the user can view at any time.





WESLEY

Notifications

You specify the UI information and actions for a notification in a NotificationCompat.Builder object. To create the notification itself, you call NotificationCompat.Builder.build(), which returns a Notificationobject containing your specifications. To issue the notification, you pass the Notification object to the system by calling NotificationManager.notify().



Creating a Notification

- A Notification object must contain the following:
 - A small icon, set by setSmallIcon()
 - A title, set by setContentTitle()
 - Detail text, set by setContentText()



NOTE:

 Add the support libraries or Android Studio will complain:

```
dependencies {
    compile fileTree(dir: 'libs', include: ['*.jar'])
    compile 'com.android.support:support-v4:21.0.+'
```



Simple Notification





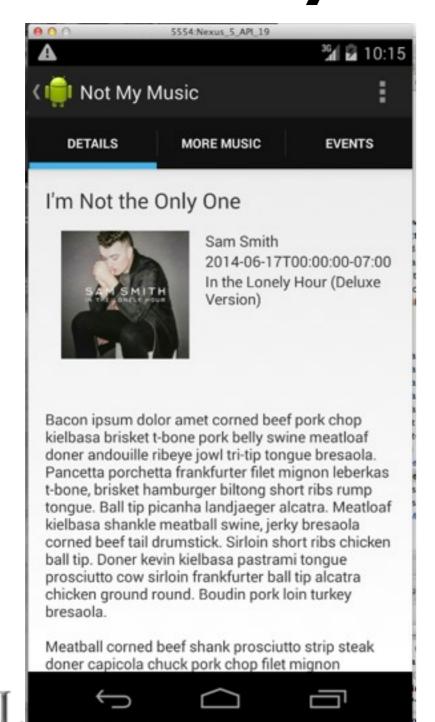
8260f7f added pending intent 53307f2 passed a message into service and on to notification 701bb98 simple notification

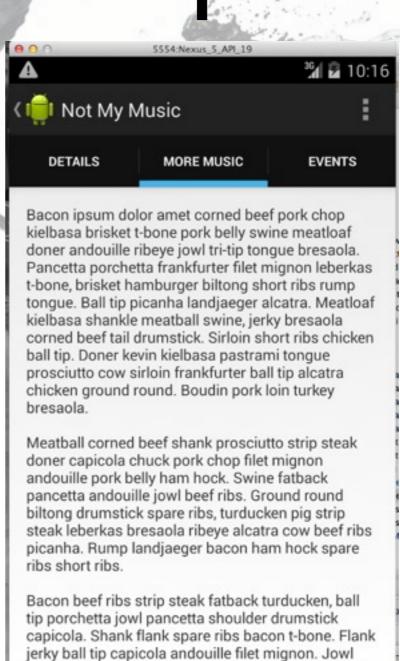


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Not My Music Updates



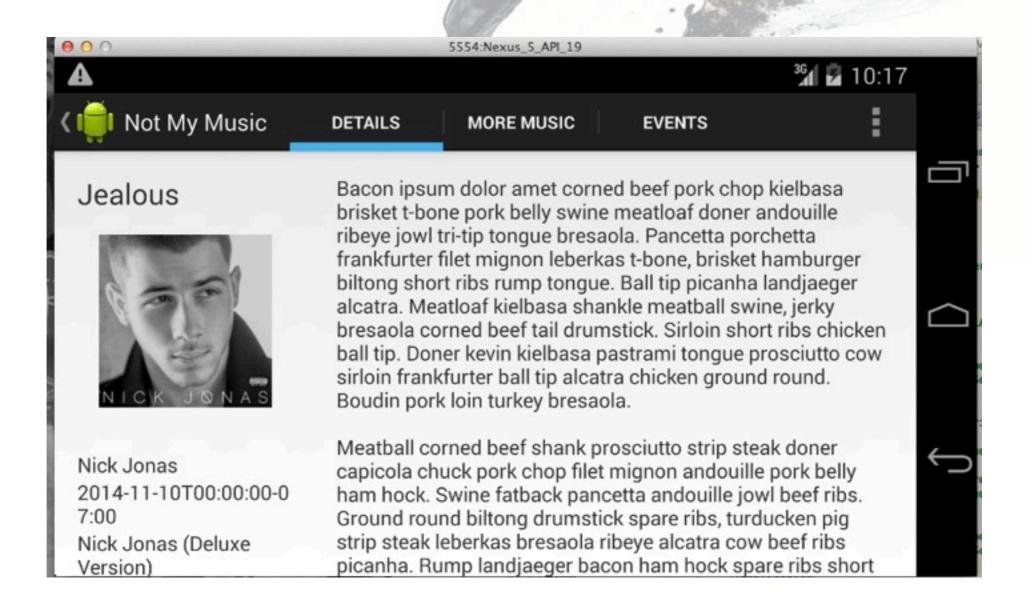


ground round bacon turkey flank, frankfurter sirloin

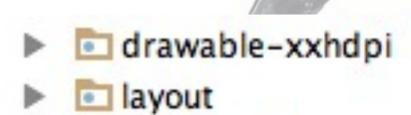
tail tonque swine tenderloin shankle chuck kevin.

```
public class MyTabListener implements ActionBar.TabListener{
   Activity mActivity;
   private Fragment fragment;
    FrameLayout fm;
   public MyTabListener(Activity activity, Fragment fragment){
        this.fragment = fragment;
        this.mActivity = activity;
   private Fragment moreFragment;
    @Override
   public void onTabSelected(ActionBar.Tab tab, FragmentTransaction ft) {
        ft.replace(R.id.container, fragment);
        if(fragment instanceof DetailsFragment){
            Log.d("TEST", "Loading detailsfragment");
            fm = (FrameLayout)mActivity.findViewById(R.id.containerMore);
            fm.setVisibility(View.VISIBLE);
            moreFragment = new MoreSongsFragment();
            ft.replace(R.id.containerMore, moreFragment);
    @Override
    public void onTabUnselected(ActionBar.Tab tab, FragmentTransaction ft) {
        ft.remove(fragment);
        if(moreFragment!=null && fm !=null){
            fm.setVisibility(View.GONE);
            ft.remove(moreFragment);
    @Override
   public void onTabReselected(ActionBar.Tab tab, FragmentTransaction ft) {
```

Not My Music Updates







- ▼ 🛅 layout-land
 - activity_song_details.xml
 - fragment_details.xml
- ▼ 🖭 menu
 - menu_details.xml
 - menu_song_grid.xml
- values



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