Notification

当系统想要不妨碍操作的情况下通知用户，可以使用Notification展示在屏幕最上方的通知栏内。

如果想要看详细的信息，拉下通知栏可以看到

系统提供了对于Notification的服务，

getSystemService(NOTIFICATION\_SERVICE)为我们返回一个通知服务的接口。

默认的通知栏布局

Content title Large icon

Content text Content info

Small icon Time

通过NotificationCompat.Builder来构造一个Notification

通过set的方法决定布局中的内容

利用NotificationManager更新界面

void notify(int id,Notification notification)

id是唯一的，如果使用相同的id，会替换已经存在的通知

可以取消通知 void cancel(int id)

触摸Notification的行为

builder.setContentIntent 来设置触摸通知后的行为

PendingIntent也是一种intent，但是可以不依赖原有App的存在来使用，Notification的意图必须被pendingIntent传递

在触摸notification后，通知消失

PendingIntent通过自身的静态方法来实例化自己

Notification被取消时的行为 builder.setDeleteIntent

AndroidManifest.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.amaker.hjs.notificationdemo.notification"**>  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme"**>  
 <**activity android:name=".MainActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
  
 <**activity android:name=".DemoActivity"**>  
 <**intent-filter**>  
 <**action android:name="heying.DemoActivity"**></**action**>  
 </**intent-filter**>  
  
 </**activity**>  
  
 </**application**>  
  
</**manifest**>

activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"**>  
  
  
 <**Button  
 android:id="@+id/button1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Notification 1"  
 android:onClick="notificationMethod"**/>  
  
 <**Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Notification 2"  
 android:onClick="notificationMethod"**/>  
  
 <**Button  
 android:id="@+id/button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Notification 3"  
 android:onClick="notificationMethod"**/>  
</**LinearLayout**>

DemoActivity.java

**package** com.amaker.hjs.notificationdemo.notification;  
  
**import** android.app.Activity;  
**import** android.os.Bundle;  
**import** android.widget.TextView;  
  
**public class** DemoActivity **extends** Activity {  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 TextView tv = **new** TextView(**this**);  
 tv.setText(**"Hello World"**);  
 setContentView(tv);  
 }  
}

MainActivity.java

**package** com.amaker.hjs.notificationdemo.notification;  
  
**import** android.app.Notification;  
**import** android.app.NotificationChannel;  
**import** android.app.NotificationManager;  
**import** android.app.PendingIntent;  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.os.Build;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 **private** NotificationManager **mNotificationManager**;  
 **private static final int *NOTIFICATION\_FLAG***=1;  
 **private static final int *NOTIFICATION\_FLAG2***=1;  
 **private** String **name**,**id**,**description**;  
 **private int importance**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 *//（1）得到服务* **mNotificationManager**= (NotificationManager) getSystemService(***NOTIFICATION\_SERVICE***);  
  
 **name** = **"channel"**;*//channel的名字* **id** = **"channel\_id"**;*//channel的id* **description** = **"This is my test channel"**;*//channel的描述信息* **importance** = NotificationManager.***IMPORTANCE\_LOW***;*//channel的重要性* NotificationChannel channel = **new** NotificationChannel(**id**, **name**, **importance**);*//生成channel* channel.enableVibration(**true**);*//设置震动* channel.enableLights(**true**);*//设置提示灯* **mNotificationManager**.createNotificationChannel(channel);*//添加channel* }  
  
  
 **public void** notificationMethod(View view){  
 **switch** (view.getId()){  
 **case** R.id.***button1***:  
  
 Intent intent = **new** Intent(**this**,DemoActivity.**class**);  
 PendingIntent pi = PendingIntent.*getActivity*(**this**,0,intent,0);  
  
 *//早期版本，兼容2.x* Notification notification = **new** Notification();  
 notification.**icon** = R.drawable.***ic\_launcher\_background***; *//小图标* notification.**tickerText**=**"有新消息"**; *//提示信息* notification.**flags**|=Notification.***FLAG\_AUTO\_CANCEL***;*//点击当前信息后自动关闭notification  
  
 /\*notification.setLatestEventInfo(this,"标题","内容",pi);\*/ //无法执行。。。* **mNotificationManager**.notify(***NOTIFICATION\_FLAG***,notification);  
 **break**;  
  
 **case** R.id.***button2***:  
 intent = **new** Intent(**this**,DemoActivity.**class**);  
 *//intent = new Intent(Intent.ACTION\_VIEW, Uri.parse("http://www.baidu.com"));* PendingIntent pi2 = PendingIntent.*getActivity*(**this**,0,intent,0);  
  
 **if** (Build.VERSION.***SDK\_INT*** >= 26) {  
  
  
 *//Level 11及以上的版本* Notification notification2 = **new** Notification.Builder(**this**, **id**)  
 .setSmallIcon(R.drawable.***newmessage***)  
 .setContentTitle(**"版本为Level 11及以上"**)  
 .setContentText(**"内容"**)  
 .setTicker(**"新消息"**)  
 .setContentIntent(pi2)  
 .setAutoCancel(**true**)  
 .getNotification();  
  
 notification2.**flags** |= Notification.***FLAG\_AUTO\_CANCEL***;*//可以省略掉* **mNotificationManager**.notify(***NOTIFICATION\_FLAG***, notification2);  
 }**else** {  
  
 *//Level 11及以上* Notification notification2 = **new** Notification.Builder(**this**)  
 .setSmallIcon(R.drawable.***newmessage***)  
 .setContentTitle(**"版本为Level 11及以上"**)  
 .setContentText(**"内容"**)  
 .setTicker(**"新消息"**)  
 .setContentIntent(pi2)  
 .setAutoCancel(**true**)  
 .getNotification();  
  
 notification2.**flags** |= Notification.***FLAG\_AUTO\_CANCEL***;*//可以省略掉* **mNotificationManager**.notify(***NOTIFICATION\_FLAG***, notification2);  
  
 }  
 **break**;  
 **case** R.id.***button3***:  
 intent = **new** Intent(**this**,DemoActivity.**class**);;  
 PendingIntent pi3 = PendingIntent.*getActivity*(**this**,0,intent,0);  
  
 **if** (Build.VERSION.***SDK\_INT*** >= 26) {  
 *//Level 16及以上版本* Notification notification3 = **new** Notification.Builder(**this**,**id**)  
 .setSmallIcon(R.drawable.***newmessage***)  
 .setContentTitle(**"版本为Level 16 及以上"**)  
 .setContentText(**"内容"**)  
 .setTicker(**"新消息"**)  
 .setContentIntent(pi3)  
 .setAutoCancel(**true**)  
 .build();  
  
 **mNotificationManager**.notify(***NOTIFICATION\_FLAG***, notification3);  
 }**else** {  
 *//Level 16及以上版本* Notification notification3 = **new** Notification.Builder(**this**)  
 .setSmallIcon(R.drawable.***newmessage***)  
 .setContentTitle(**"版本为Level 16 及以上"**)  
 .setContentText(**"内容"**)  
 .setTicker(**"新消息"**)  
 .setContentIntent(pi3)  
 .setAutoCancel(**true**)  
 .build();  
 }  
 **break**;  
 }  
 }  
  
}