Notifications

- **notification**: A message displayed to the user outside of any app's UI in a top *notification drawer* area.
  - used to indicate system events, status of service tasks, etc.

- **notifications can have:**
  - **icons** (small, large)
  - a **title**
  - a detailed **description**
  - one or more associated **actions** that will occur when clicked
  - ...
Creating a Notification

- Create a notification using a NotificationBuilder.
- Use NotificationManager to send out the notification.

```java
Notification.Builder builder = new Notification.Builder(this)
    .setContentTitle("title")
    .setContentText("text")
    .setAutoCancel(true)
    .setSmallIcon(R.drawable.icon);
Notification notification = builder.build();

NotificationManager manager = (NotificationManager)
    getSystemService(Context.NOTIFICATION_SERVICE);
manager.notify(ID, notification);
```
## Notification properties

- **setAutoCancel** *(boolean)* - whether to hide when clicked  
- **setColor** *(argb)* - background color  
- **setContentIntent** *(Intent)* - intent for action to run when clicked  
- **setContentText** *("s")* - detailed description  
- **setContentTitle** *("s")* - large heading text  
- **setGroup** *("s")* - group similar notifications together  
- **setLargeIcon** *(Bitmap)* - image for big icon  
- **setLights** *(argb, onMS, offMS)* - blinking lights  
- **setNumber** *(n)* - a large number at right of notification  
- **setSmallIcon** *(id)* - image file for icon  
- **setSound** *(Uri)* - a sound to play  
- **setTicker** *("s")* - text to scroll across top bar  
- **setVisibility** *(vis)* - whether notification should show  
- **setWhen** *(ms)* - timestamp of notification
Normally when the user clicks on a notification, an action should occur. (direct the user to a particular app / activity, etc.)

- To achieve this, use an intent inside your notification.
- Must wrap it inside a "pending intent" object.

```java
Notification.Builder builder = ...;
Intent intent = new Intent(this, ActivityClassName.class);
intent.putExtra("key1", "value1");
...
PendingIntent pending = PendingIntent.getActivity(this, 0, intent, 0);
builder.setContentIntent(pending);

Notification notification = builder.build();
...