# USER NOTIFICATION

### USER NOTIFICATIONS

Messages provided to the user outside of the normal UI

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These include messages aimed at User feedback

**Toasts** 

**Dialogs** 

**Event notification** 

**Notification Area notifications** 

#### TOAST

Transitory messages that pop up on the current window

e.g., to inform user that an operation has completed successfully

Automatically fade into & out of view No user interaction or response

#### CREATING TOAST NOTIFICATIONS

Instantiate a Toast object by calling
Toast.makeText(context, text, duration)
Show toast by calling
Toast.show()



# NotificationToast

```
@Override
public void onClick(View v) {
    Toast.makeText(getApplicationContext(), "You're toast!", Toast.LENGTH_LONG).show();
}
```

#### TOAST WITH CUSTOM VIEWS

Can create custom layouts in XML Set them using Toast.setView()



# NotificationToastWithCustomView

```
@Override
public void onClick(View v) {
    Toast toast = new Toast(getApplicationContext());
    toast.setGravity(Gravity.CENTER_VERTICAL, 0, 0);
    toast.setDuration(Toast.LENGTH_LONG);
    toast.setView(getLayoutInflater().inflate(R.layout.custom_toast,null));
    toast.show();
}
```

### NOTIFICATION AREA NOTIFICATIONS

Android provides the notification area for alerting users about events

It also provides a notification drawer that users can pull down to see more detailed information about notifications



# NOTIFICATION ARCHITECTURE

**Notification** 

Title, detail, small icon

**Notification Area** 

Ticker text, small icon

**Notification Drawer** 

View

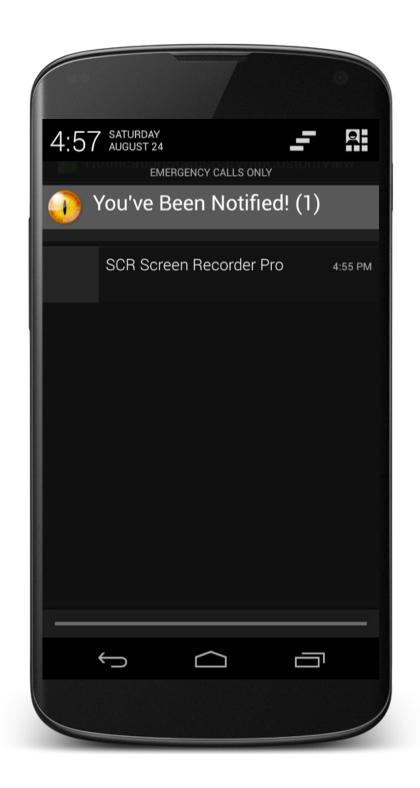
Action

# NOTIFICATION MANAGER

System service that manages Notifications

send & cancel notification





#### NOTIFICATIONSTATUSBARWITHCUSTOMVIEW

```
Notification subActivity. class),
mContentIntent = PendingIntent.getActivity(getApplicationContext(), 0,
     mNotificationIntent, Intent.FLAG_ACTIVITY_NEW_TASK);
final Button button = (Button) findViewByld(R.id.button1);
button.setOnClickListener(new OnClickListener() {
  @Override
  public void onClick(View v) {
     // Define the Notification's expanded message and Intent:
     mContentView.setTextViewText(R.id.text, contentText + " ("
          + ++mNotificationCount + ")");
     // Build the Notification
     Notification.Builder notificationBuilder = new Notification.Builder(
          getApplicationContext())
       .setTicker(tickerText)
        .setSmallIcon(android.R.drawable.stat_sys_warning)
       .setAutoCancel(true)
        .setContentIntent(mContentIntent)
        .setSound(soundURI)
       .setVibrate(mVibratePattern)
       .setContent(mContentView);
     // Pass the Notification to the NotificationManager:
     NotificationManager mNotificationManager = (NotificationManager) getSystemService(Context.NOTIFICATION_SERVICE);
     mNotificationManager.notify(MY_NOTIFICATION_ID,
          notificationBuilder.build());
});
```

# NotificationToastWithCustomView

```
@Override
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    toast.setDuration(Toast.LENGTH_LONG);
    toast.setView(getLayoutInflater().inflate(R.layout.custom_toast,null));
    toast.show();
}
```

# NEXT TIME

The BroadcastReceiver Class