

PROGRAMMING HANDHELD SYSTEMS

ADAM PORTER

USER NOTIFICATION

TODAY'S TOPICS

TOAST

NOTIFICATION AREA NOTIFICATIONS

USER NOTIFICATIONS

MESSAGES PROVIDED TO THE USER OUTSIDE OF THE NORMAL UI

USER NOTIFICATIONS

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()

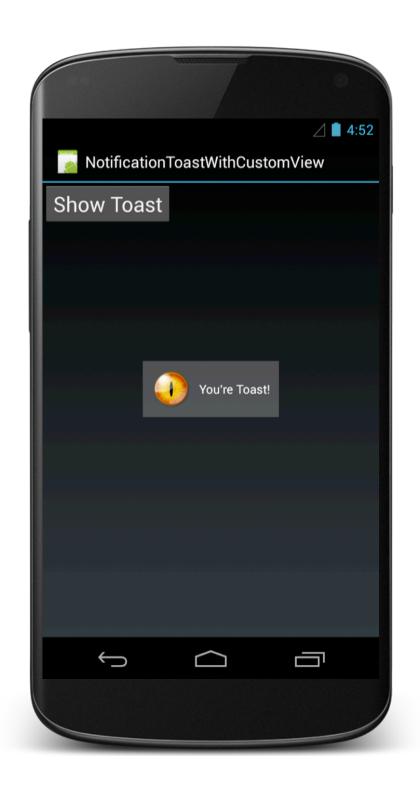


NOTIFICATIONTOAST

```
@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

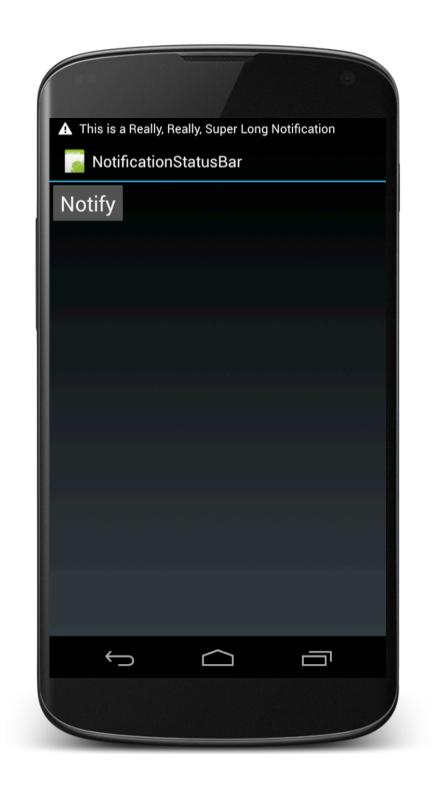
VIEW

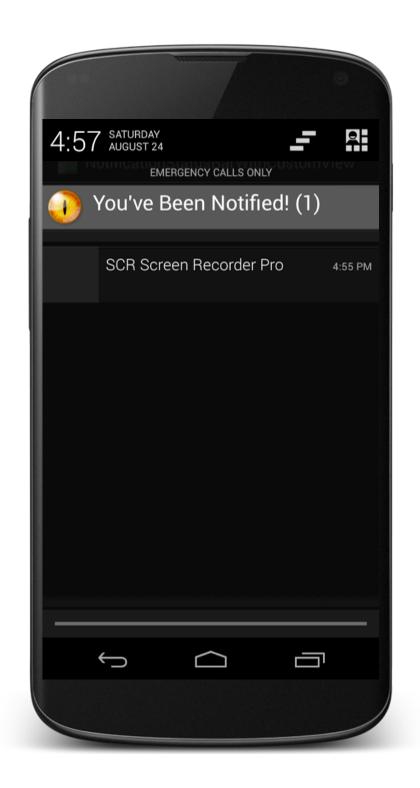
ACTION

NOTIFICATION MANAGER

System service that manages Notifications

SEND & CANCEL NOTIFICATION





NOTIFICATIONSTATUSBARWITHCUSTOMVIEW

NOTIFICATIONSTATUSBARWITHCUSTOMVIEW

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();
}
```

NEXT TIME

THE BROADCASTRECEIVER CLASS