

PROGRAMMING HANDHELD SYSTEMS

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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

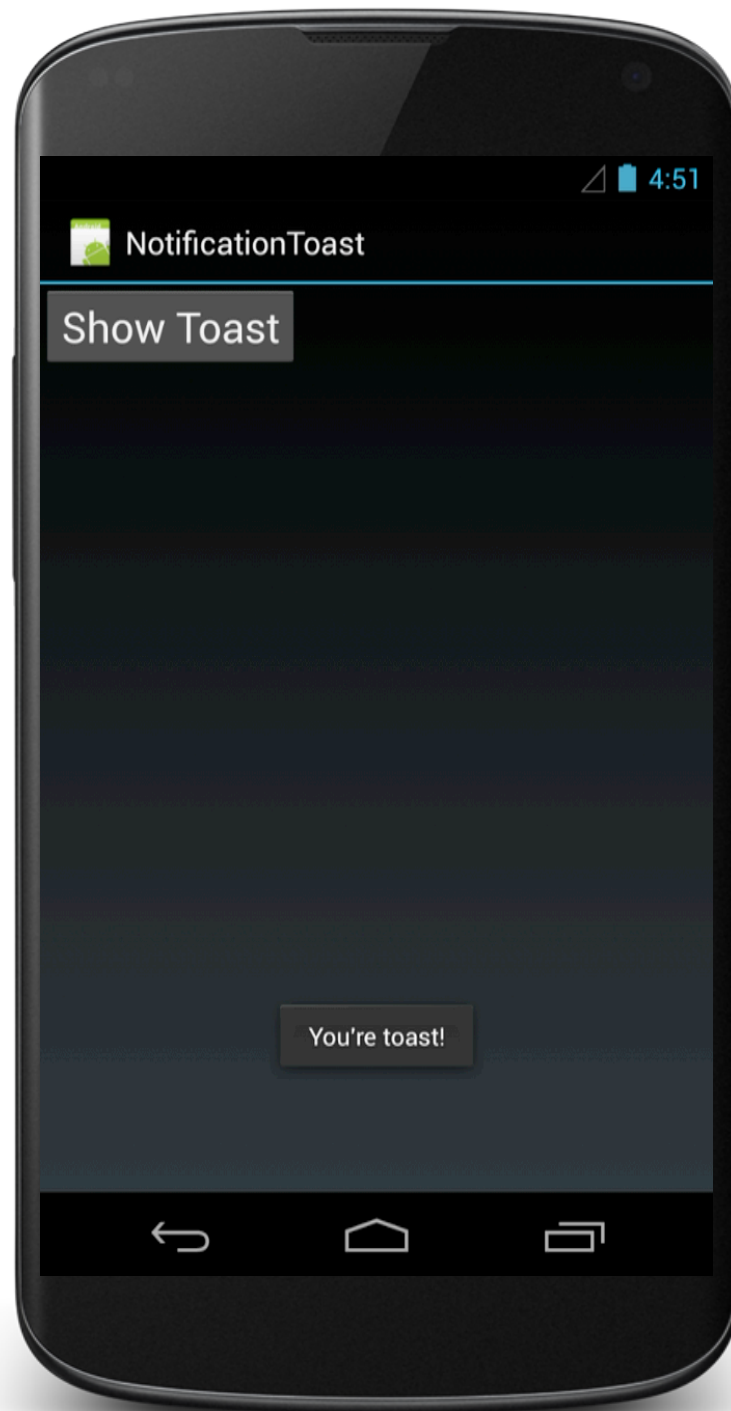
CREATING TOAST NOTIFICATIONS

INSTANTIATE A TOAST OBJECT BY CALLING

```
Toast.makeText(context, text, duration)
```

SHOW TOAST BY CALLING

```
Toast.show()
```

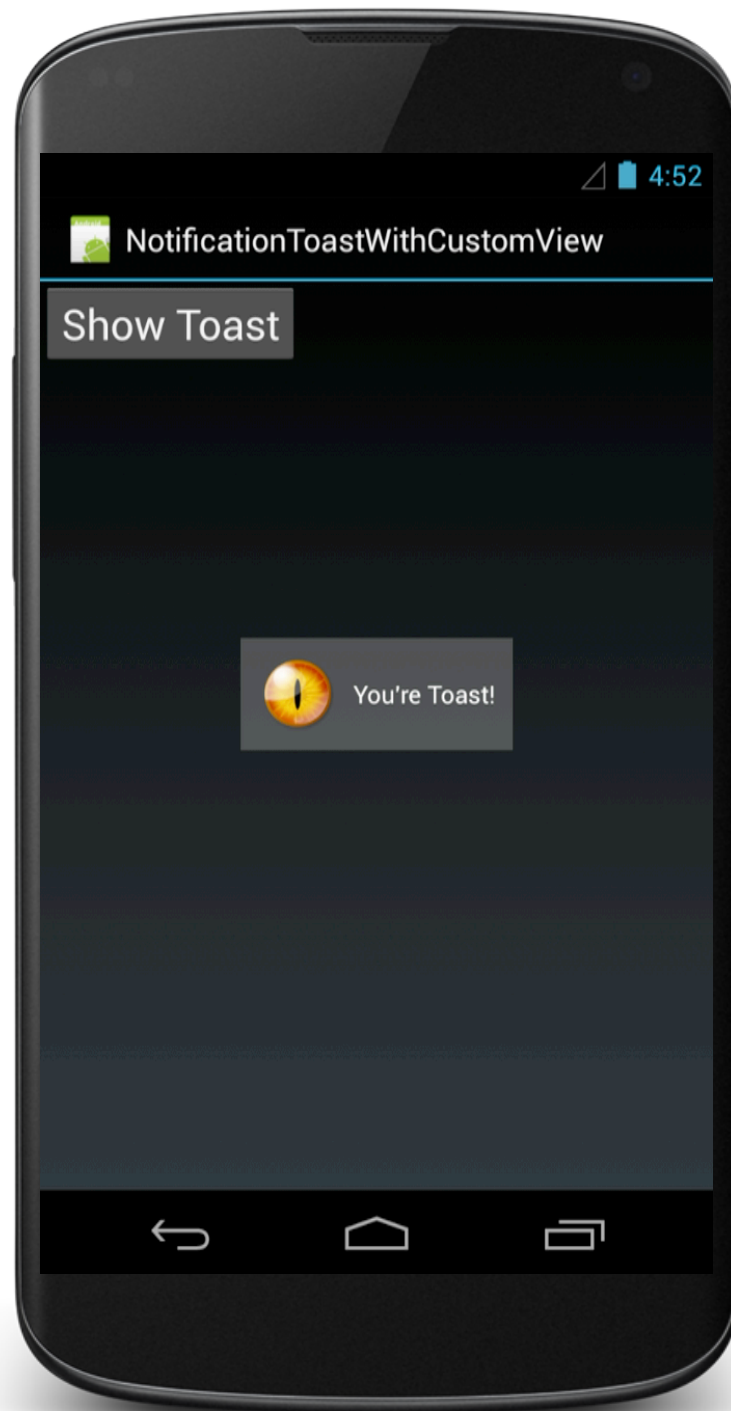


Demonstration of the NotificationToast
project in the IDE

TOAST WITH CUSTOM VIEWS

CAN CREATE CUSTOM LAYOUTS IN XML

SET THEM USING `Toast.setView()`

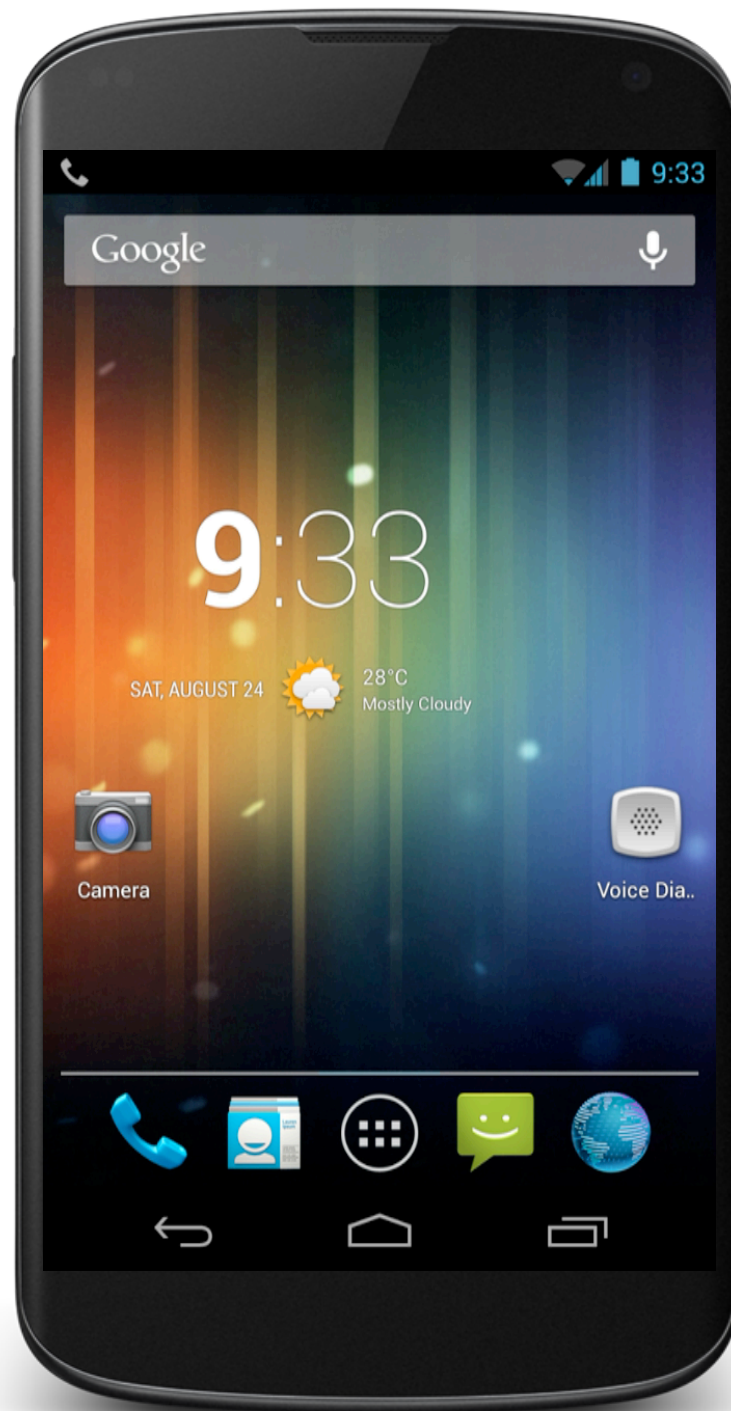


Demonstration of the
NotificationToastWithCustomView
project in the IDE

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

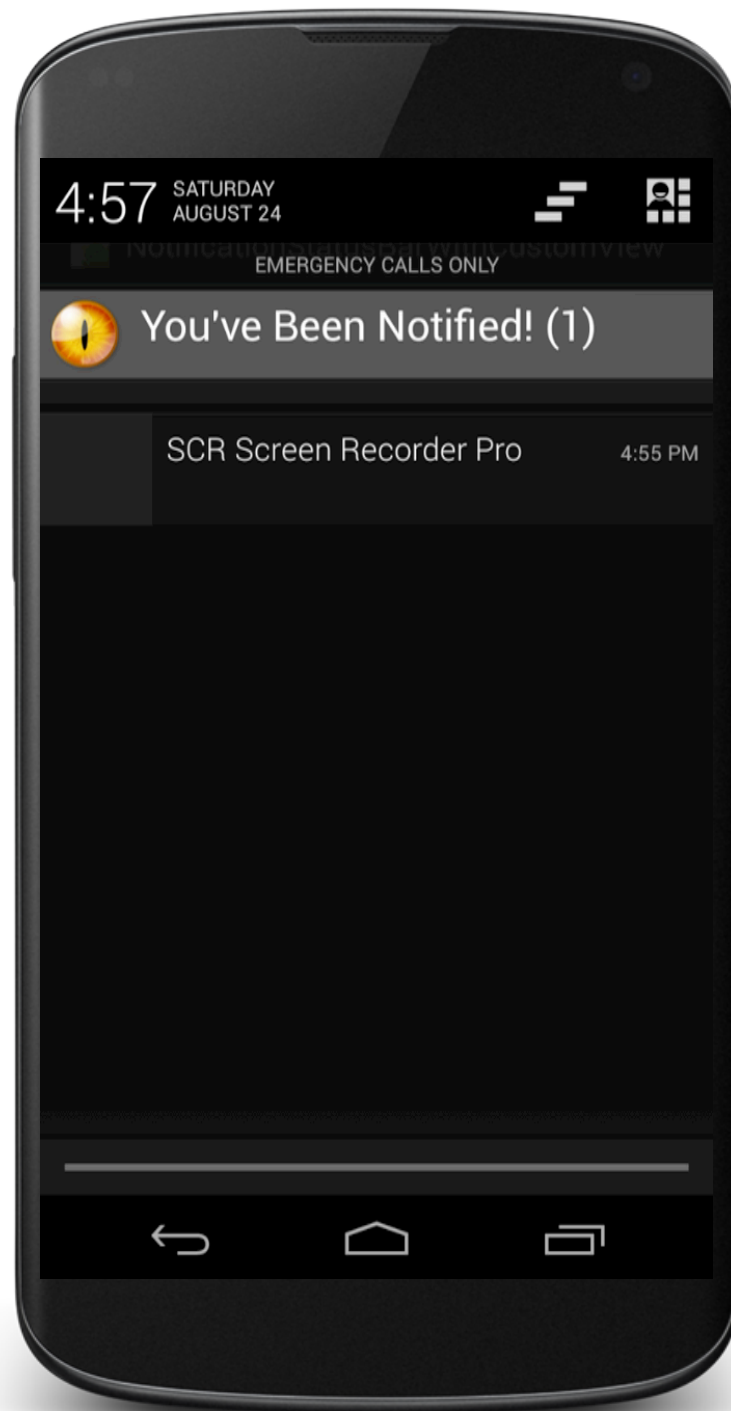
ACTION

NOTIFICATION MANAGER

SYSTEM SERVICE THAT MANAGES
NOTIFICATIONS

SEND & CANCEL NOTIFICATION





Demonstration of the
NotificationStatusBarWithCustomView
project in the IDE

NEXT TIME

THE BROADCASTRECEIVER CLASS