

# Getting Familiar with Building Blocks of Android

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# Building Blocks of Android: **Four Components**

**Activity**

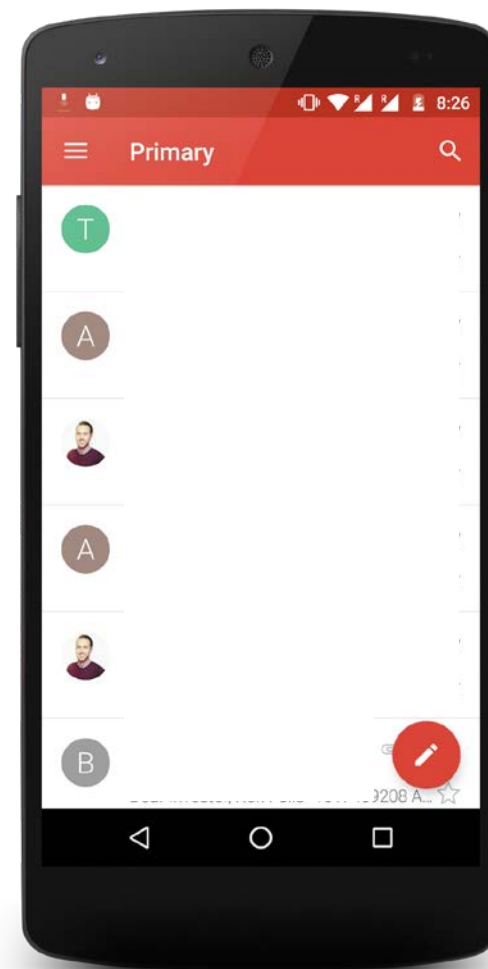
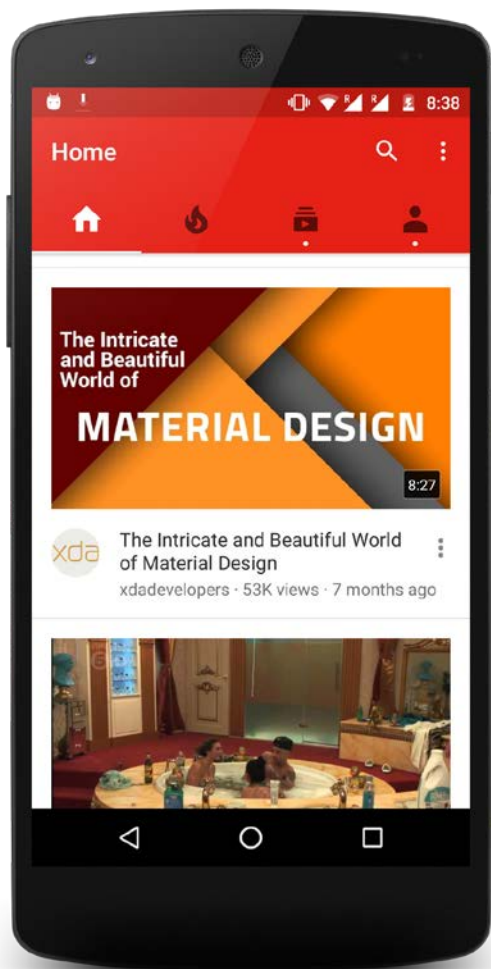
**Service**

**Broadcast Receiver**

**Content Provider**



# Activity



# Overview

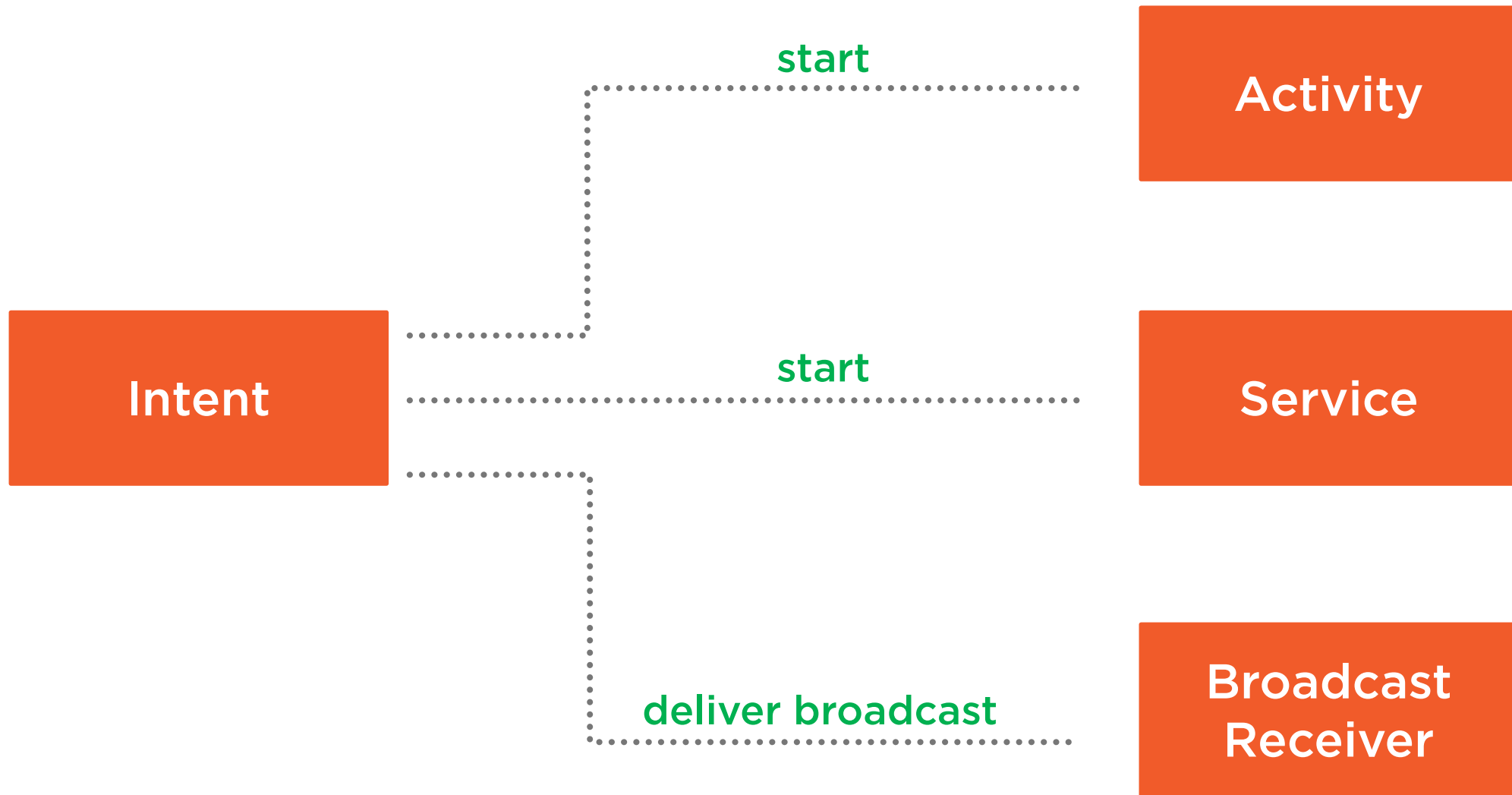


## INTENT

- Start an Activity
- Start a Service
- Deliver a broadcast for BroadcastReceiver



# Intent

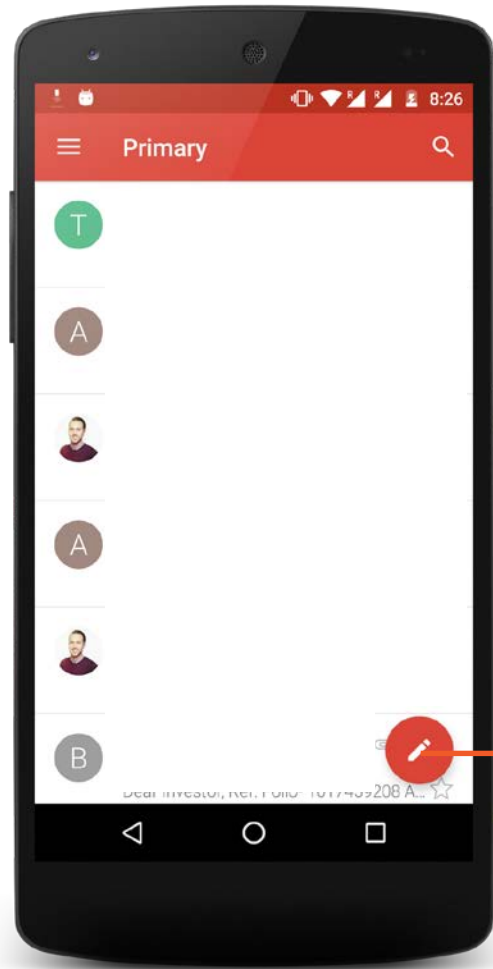


# Intents and Activities

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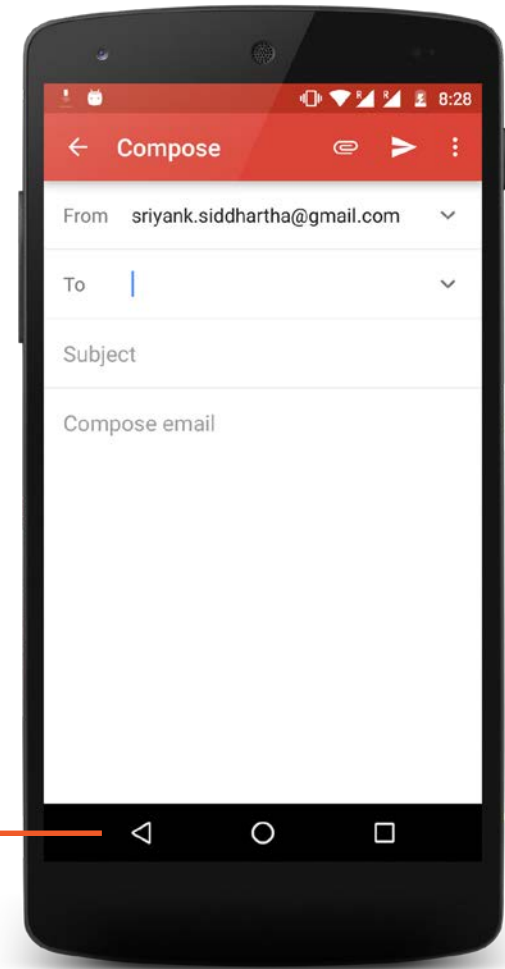
# Activity



FIRST Activity

INTENT

Navigate to SECOND Activity



SECOND Activity

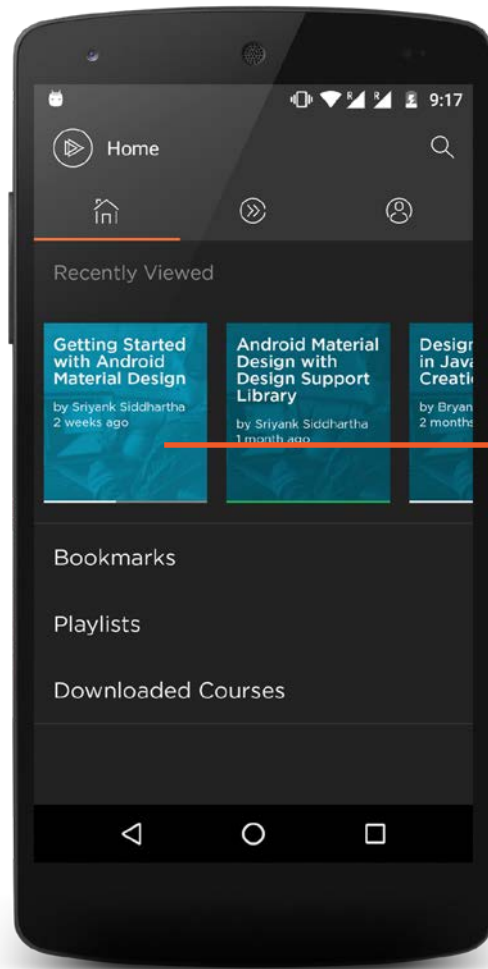
FIRST Activity gets Resumed



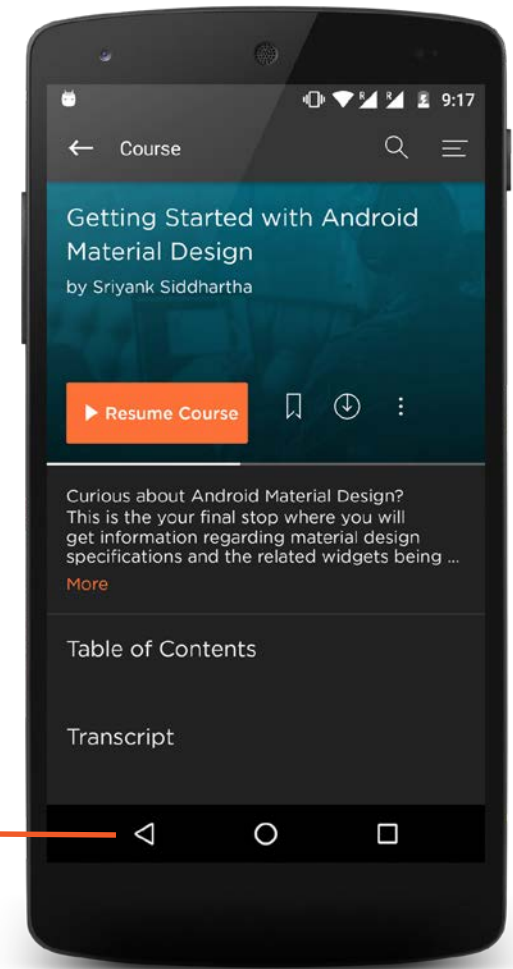
# Activity

## INTENT

Navigate to SECOND Activity



FIRST Activity



SECOND Activity

FIRST Activity gets Resumed





# Overview

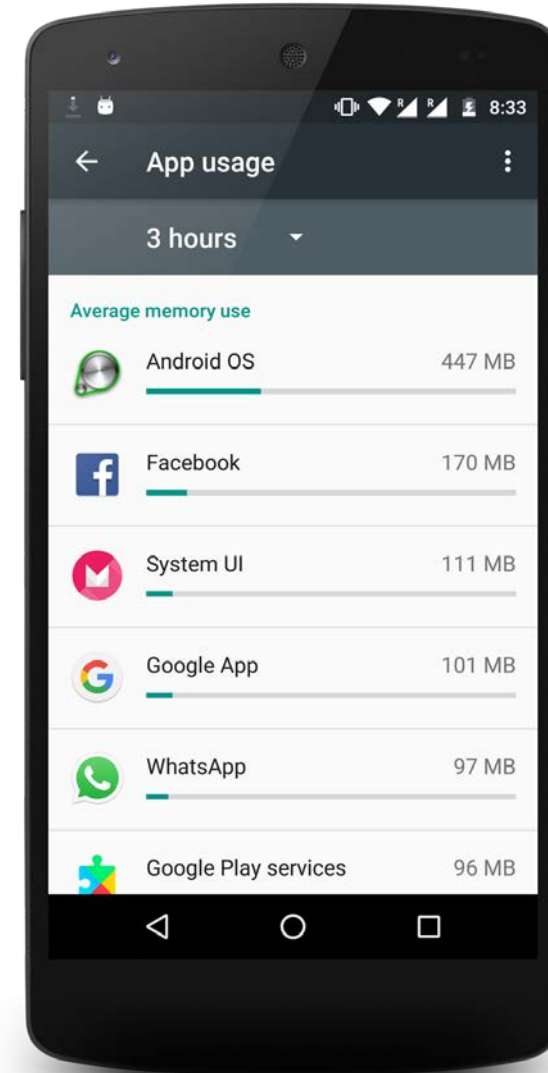


## Service

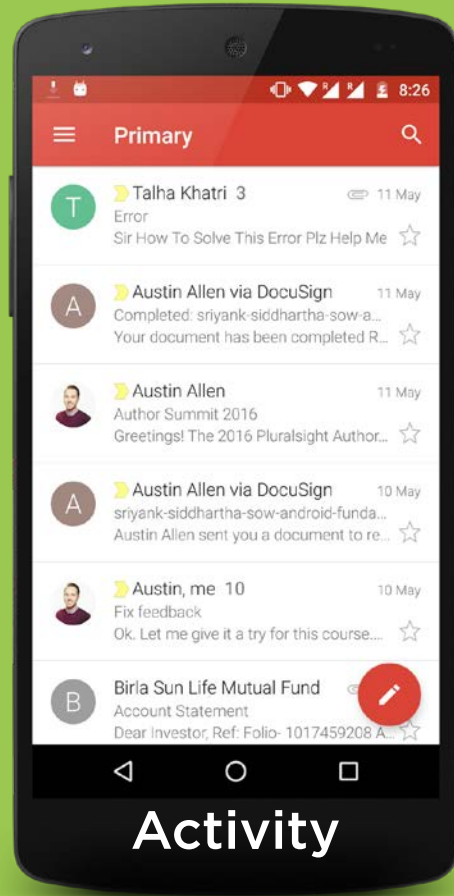
- Runs in background
- No user interface
- Can be started by Activity
- Examples :-
  - Downloading a file
  - Playing Music
  - Updating an app



# Service



# Service



Activity

## Background Tasks



Playing Music

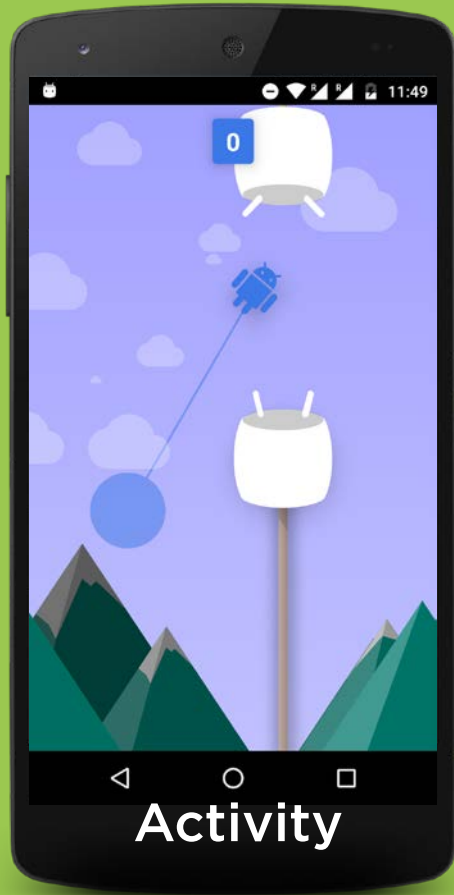


Downloading a File

# Service



# Service



## Background Tasks



Updating apps

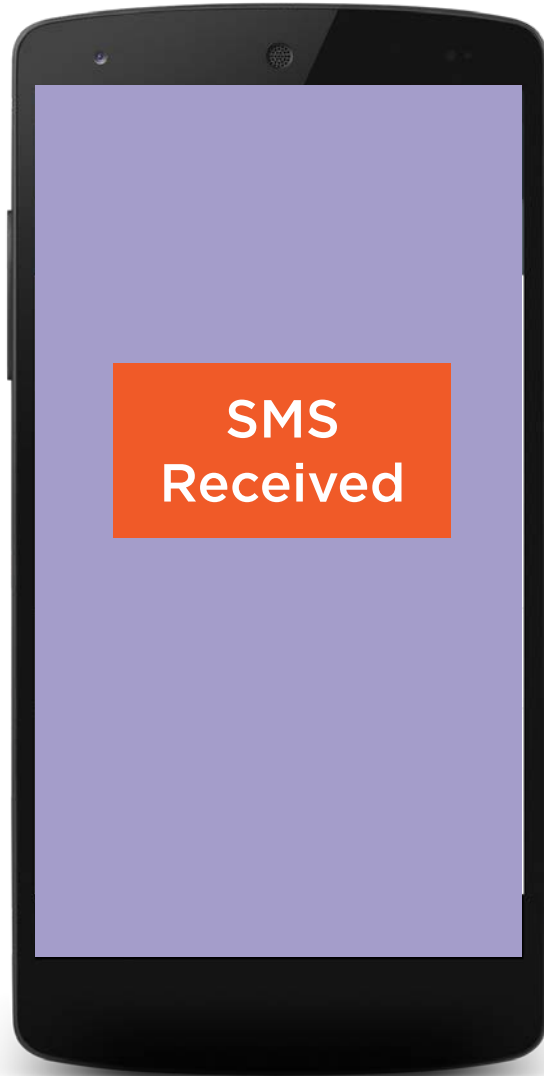


Uploading File

## Service



# Broadcast Receiver



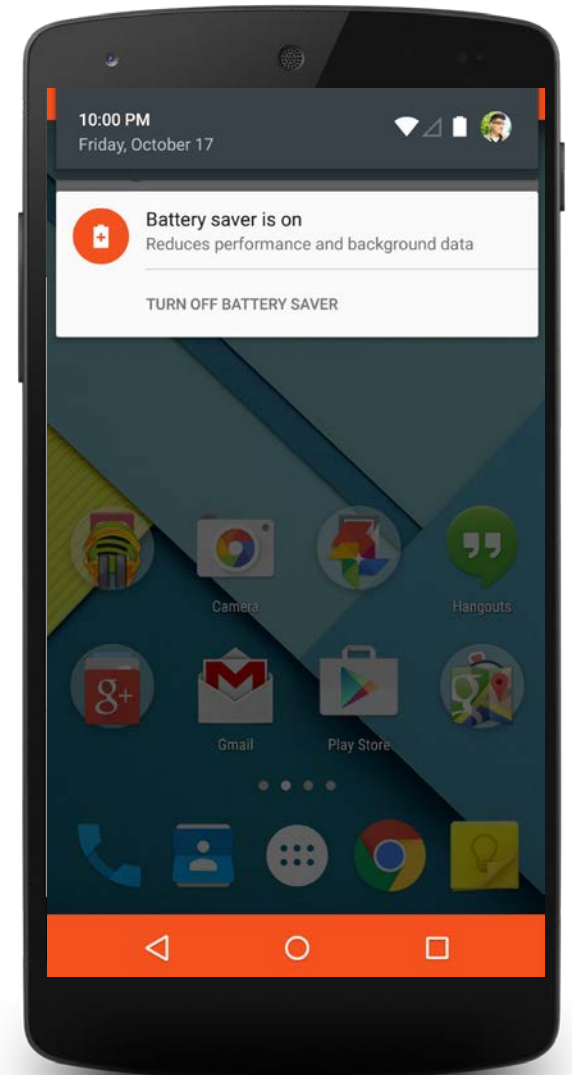
Android Operating  
System



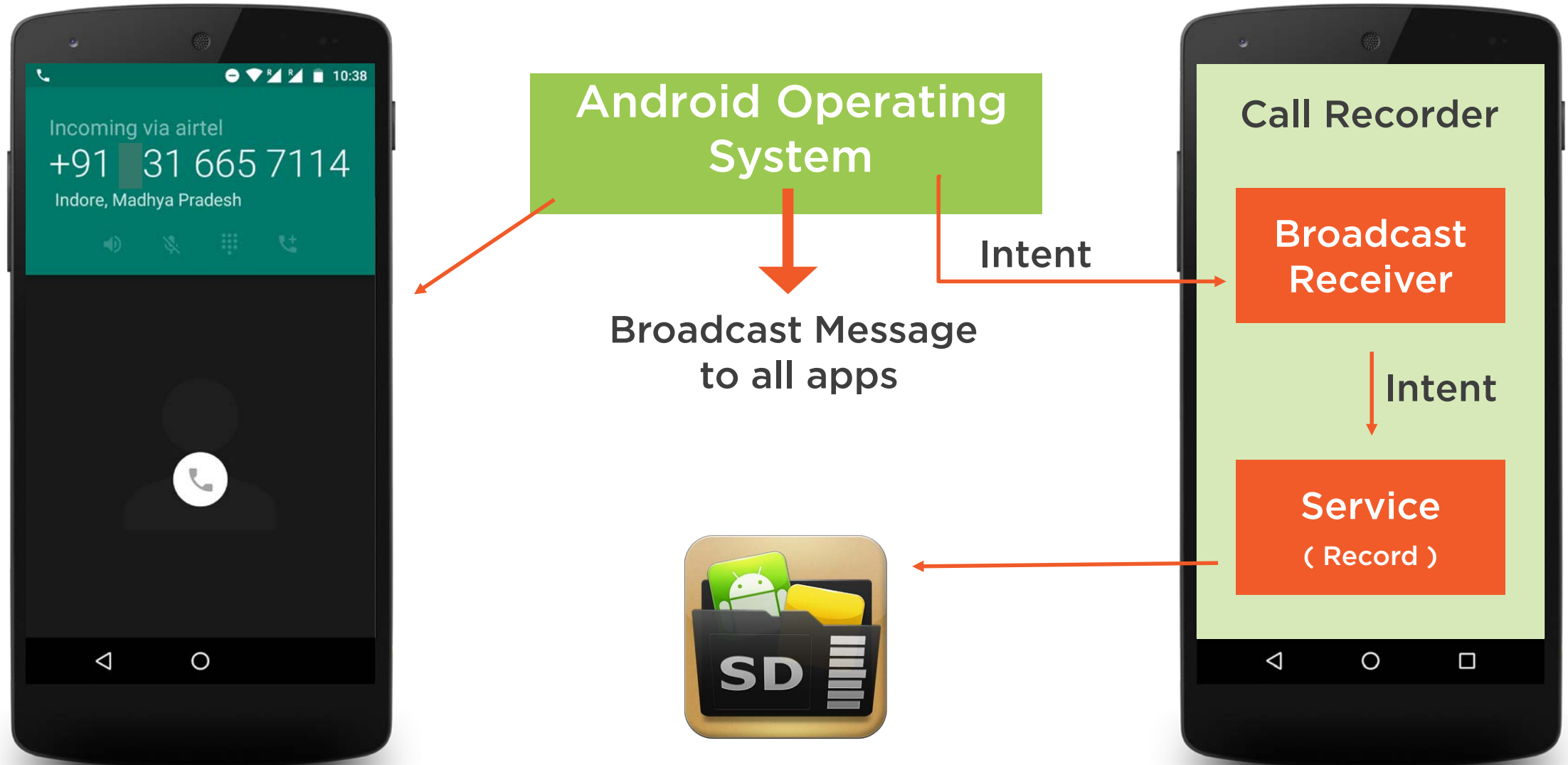
Broadcast Message  
to all apps

Few Examples : -

- Incoming Call
- Flight Mode on/off
- Wi-fi on/off



# Broadcast Receiver



# Summary



## Android Components

- Activity
- Service
- Broadcast Receiver
- Content Provider

## Intent

- Relation with Android Components