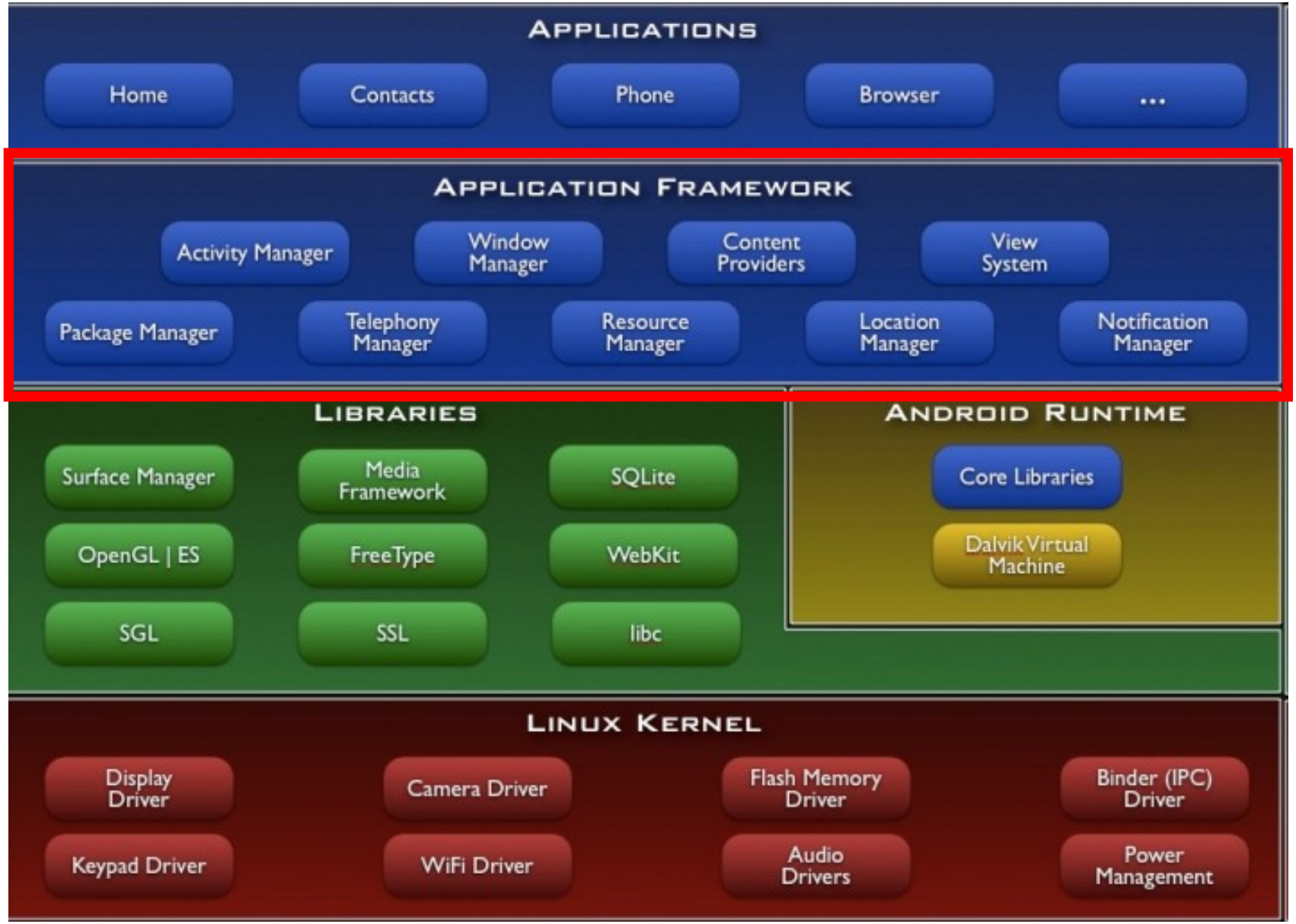
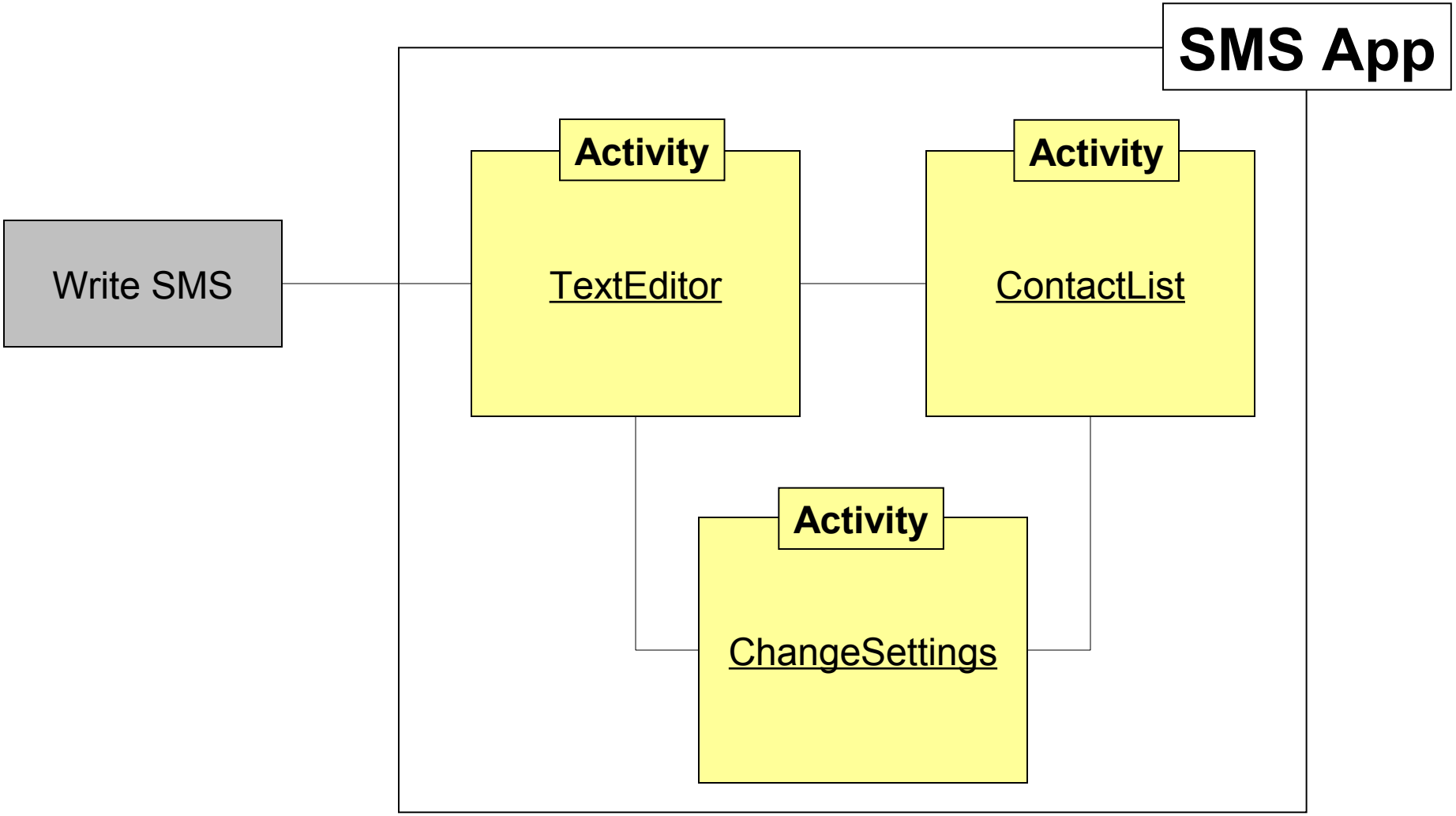
Activities
Intents
Views


Applications
Home
Contacts
Phone
Browser
...
Application Framework
Activity Manager
Window Manager
Content Providers
View System
Package Manager
Telephony Manager
Resource Manager
Location Manager
Notification Manager
Libraries
Surface Manager
Media Framework
SQLite
OpenGL | ES
FreeType
WebKit
SGL
SSL
libc
Android Runtime
Core Libraries
Dalvik Virtual Machine
Linux Kernel
Display Driver
Camera Driver
Flash Memory Driver
Binder (IPC) Driver
Keypad Driver
WiFi Driver
Audio Drivers
Power Management

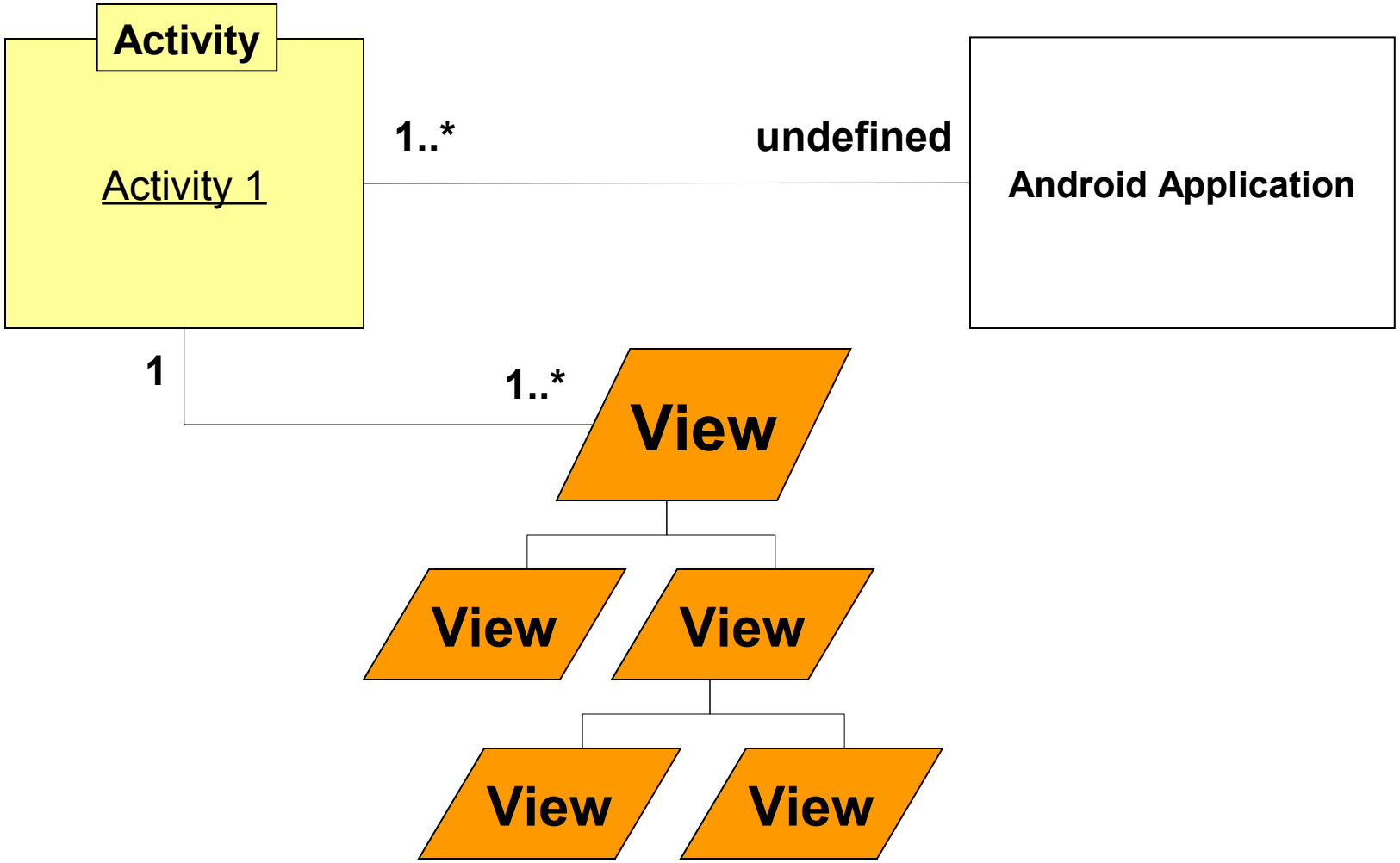
What is an Activity?

- An application component concept



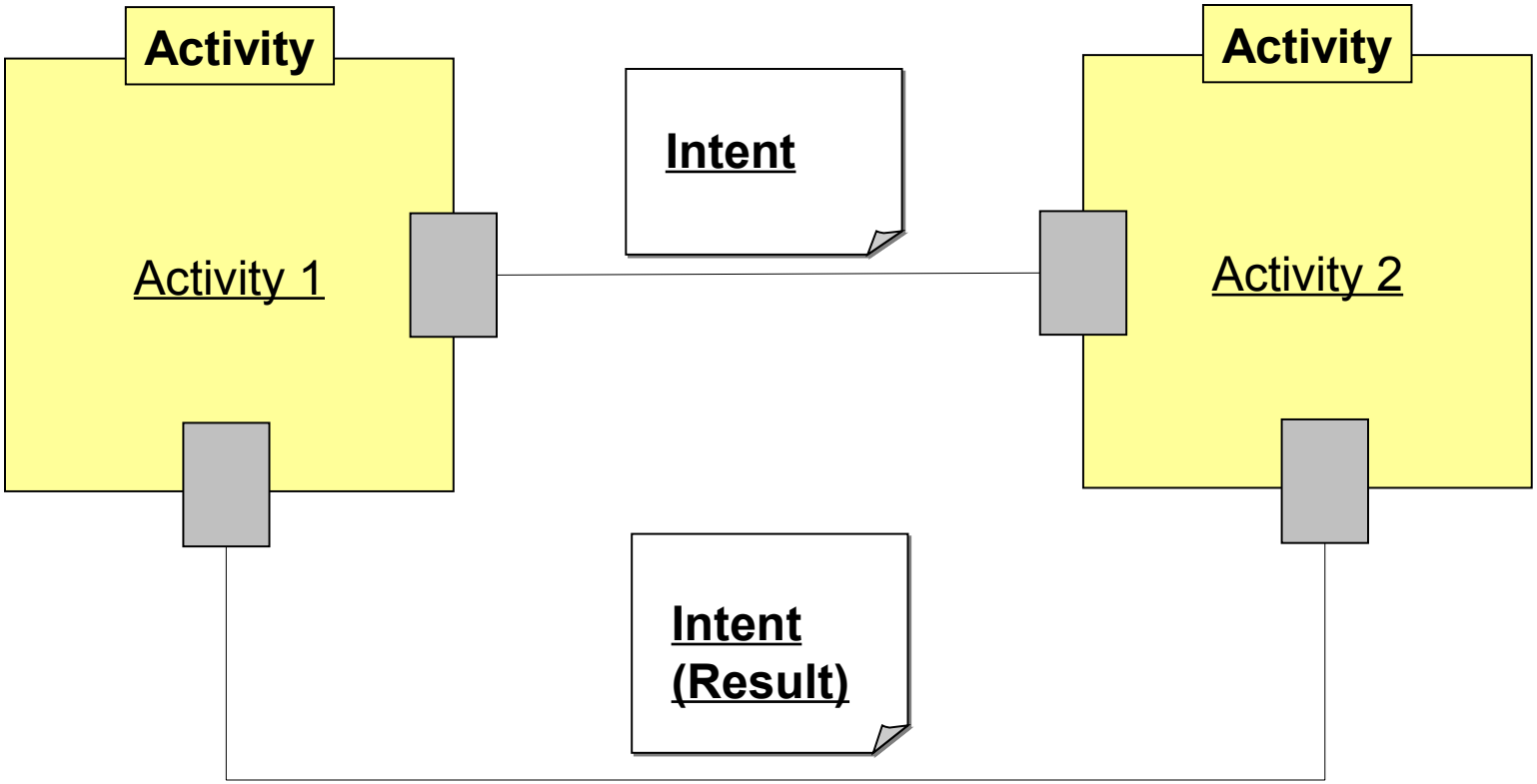
What is an Activity?

- Dependencies of an Activity

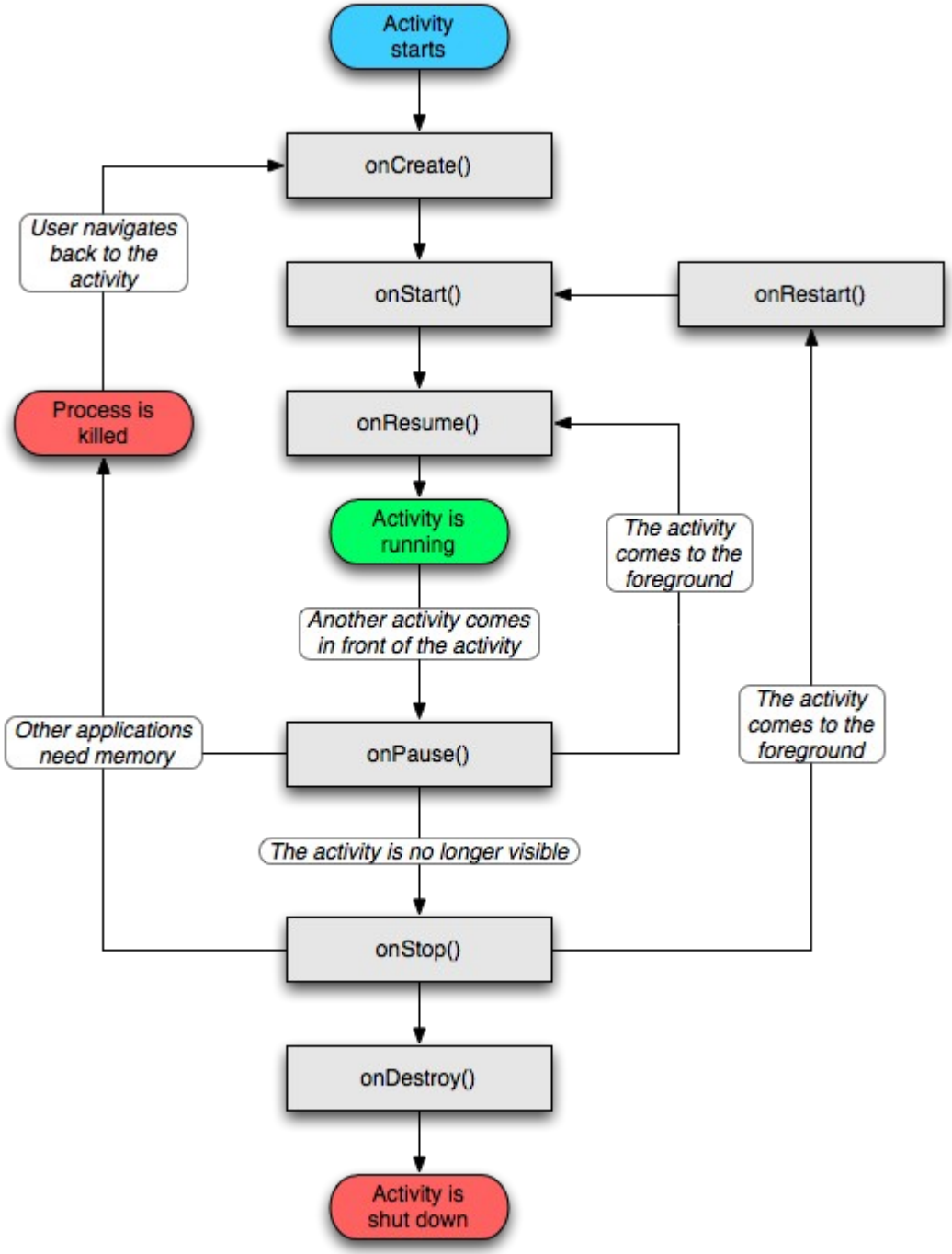


What is an Activity?

- Intents

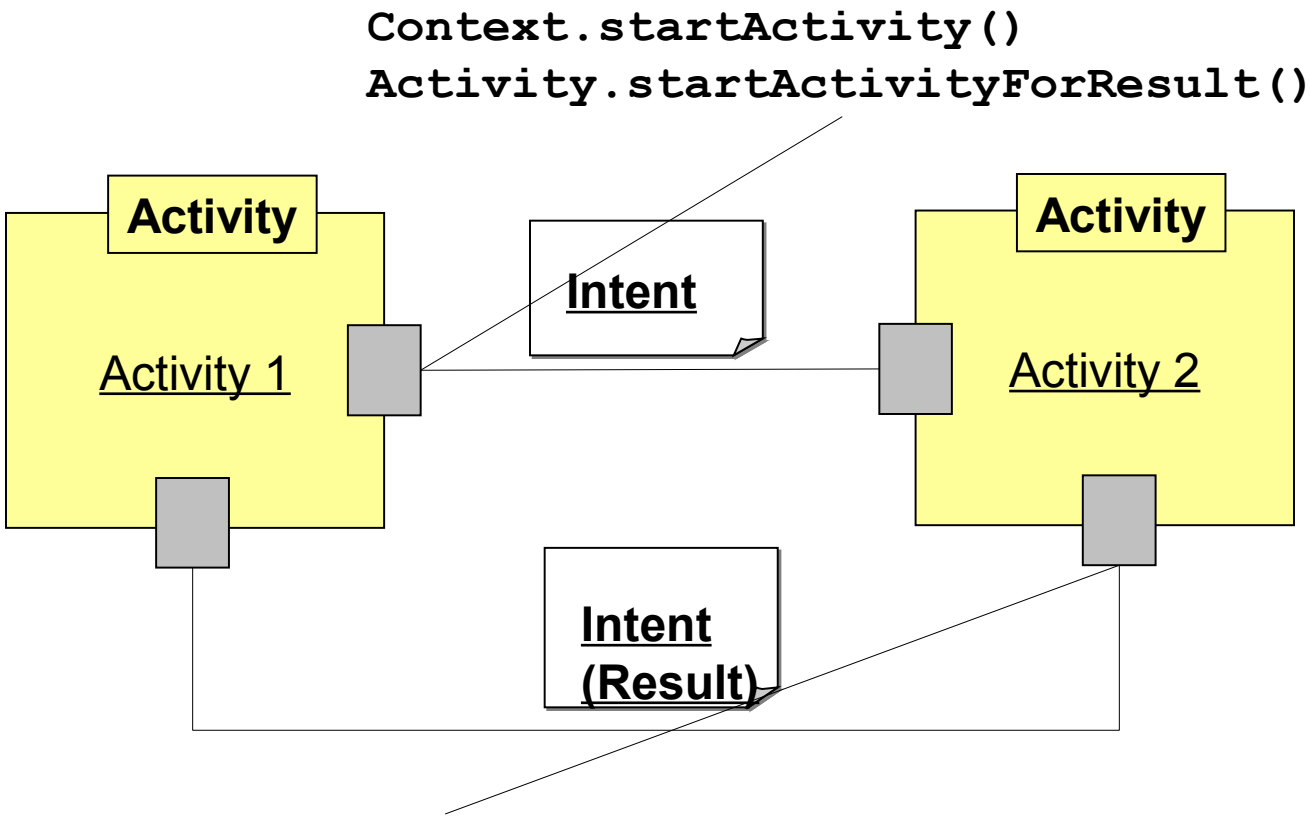


Activity Lifecycle*



What is an Intent?

- Intents are messages
- Late Runtime Binding



`Activity.startActivityForResult()` → `Activity.setResult()`

What is an Intent?

- Invoke a Service
- Connect to a Service
- Broadcasting
- Bundle of information

Intent

ComponentName[1]
(optional)
Action[2]
Data[3]
Category[4]
Extras[5]

What is an Intent?

Explicit Intent

```
Intent i1 = new Intent(this,
    ActivityWorld.class);

startActivity(i1);
```

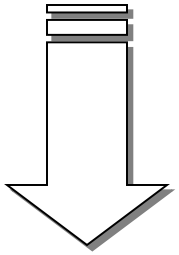
Implicit Intent

```
Intent i2 = new Intent();
i2.setAction(Intent.ACTION_CALL);
i2.setData(Uri.parse("tel:5556"));
startActivity(i2);
```

What is an Intent?

Implicit Intent

```
Intent i2 = new Intent();
i2.setAction(Intent.ACTION_CALL);
i2.setData(Uri.parse("tel:5556"));
startActivity(i2);
```



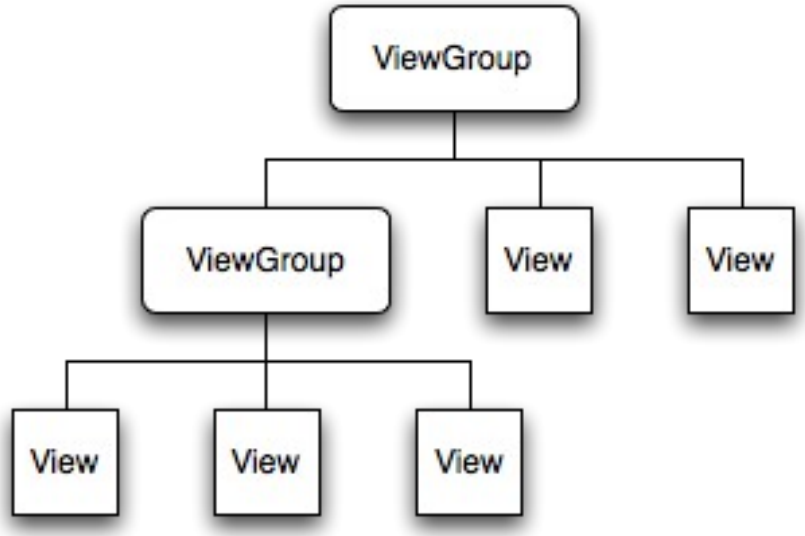
Intent Filter

What is a view?

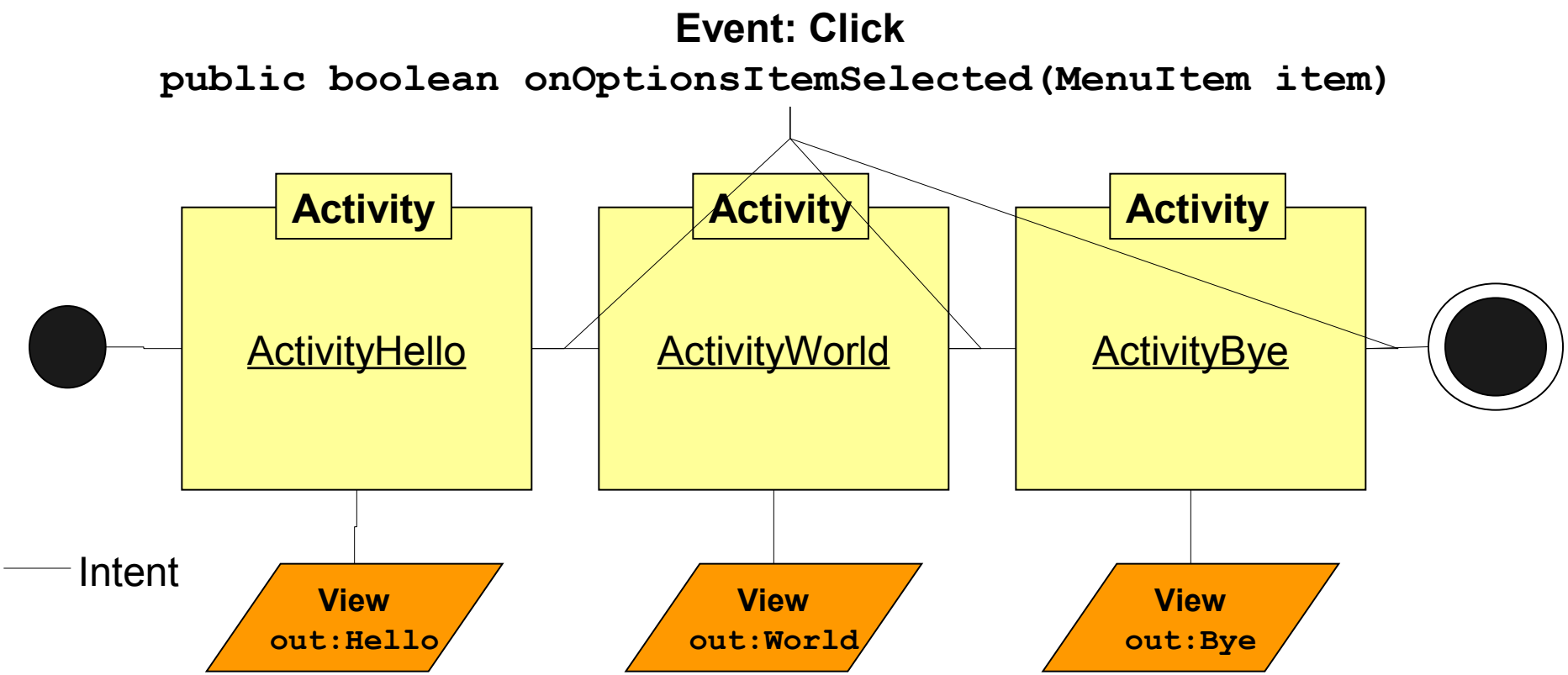
- A representation of an user interface

- *View* is a base for subclasses called widgets
→ *UI objects (TextView, EditText, Button,…)*

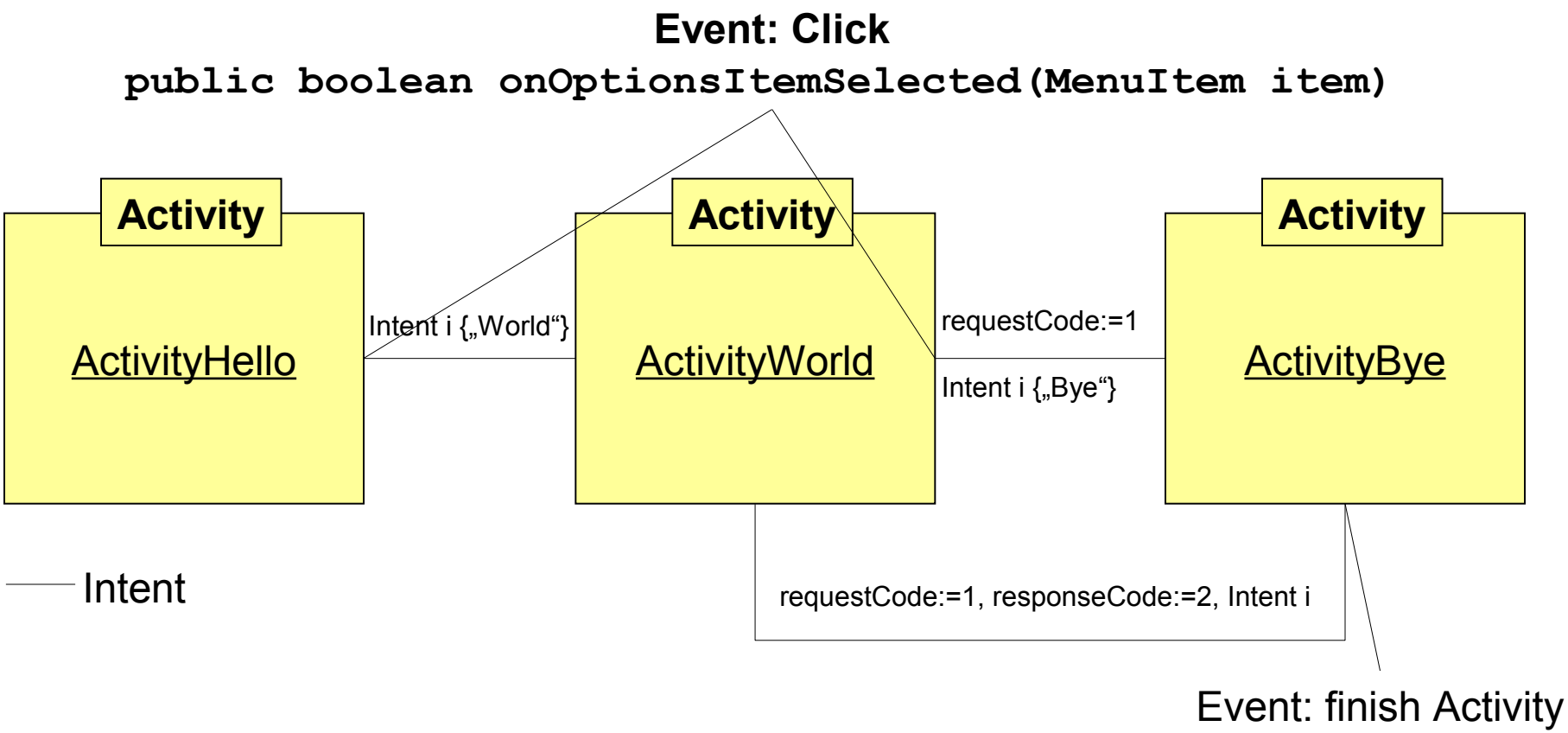
- *ViewGroup* is a base for subclasses called layouts
→ *linear-,tabular-,relative-layout*



Synchronously call Activities



Asynchronously call Activities



Next steps...

Demo

Part III