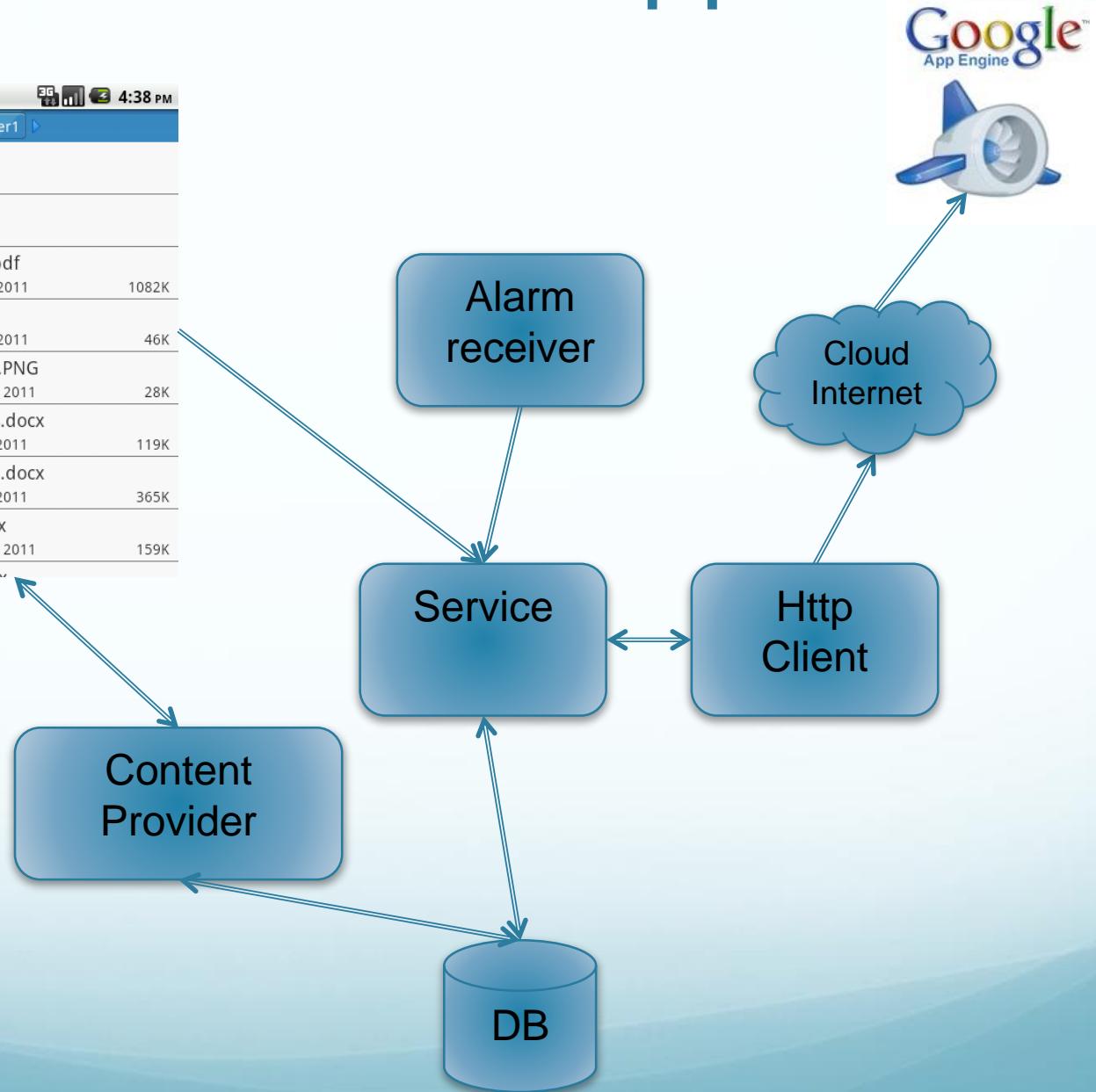
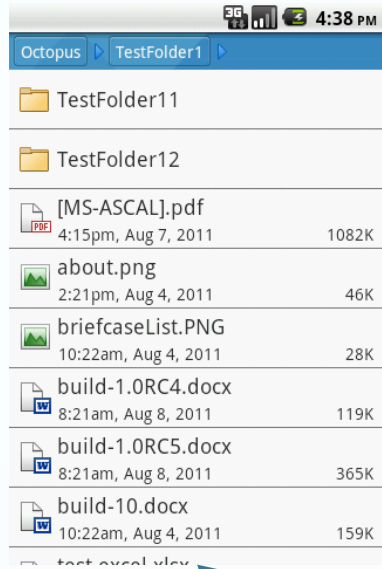


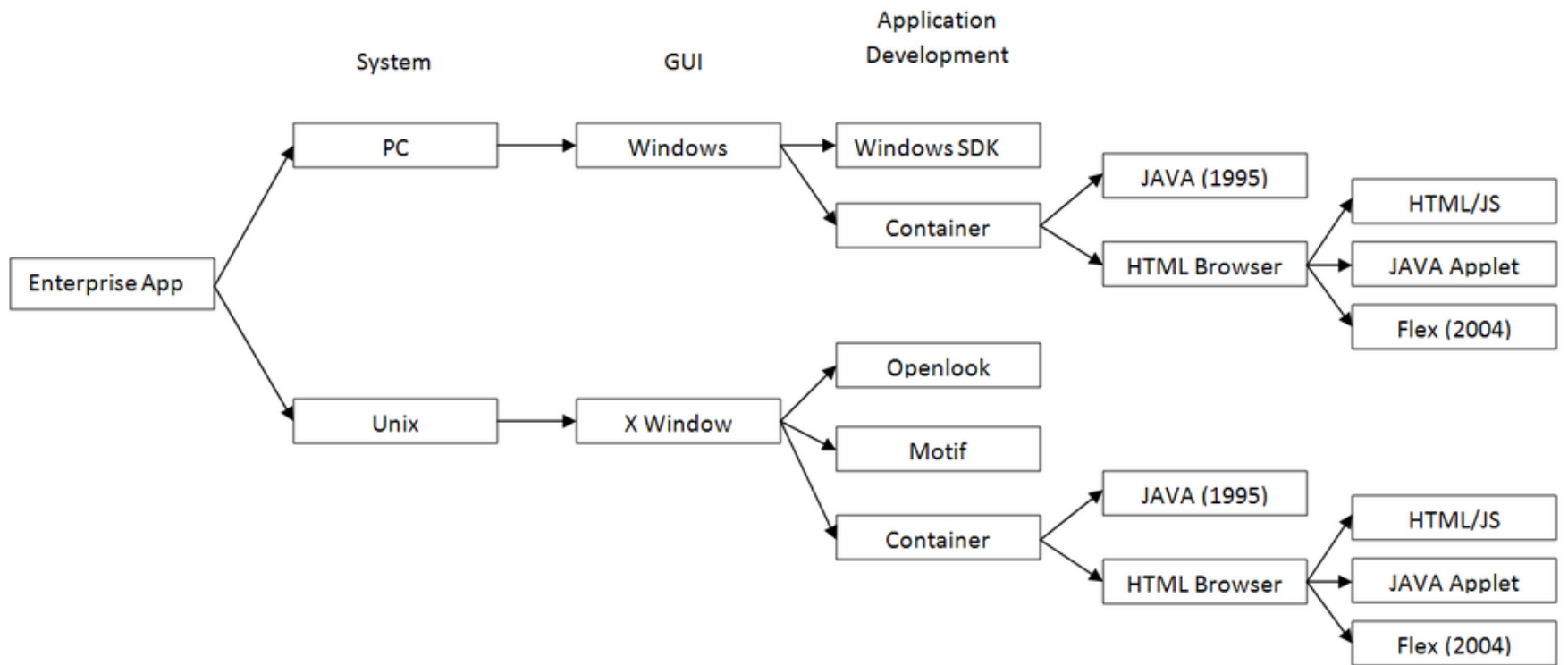
Android Coding

張繼棟 (Chitong)

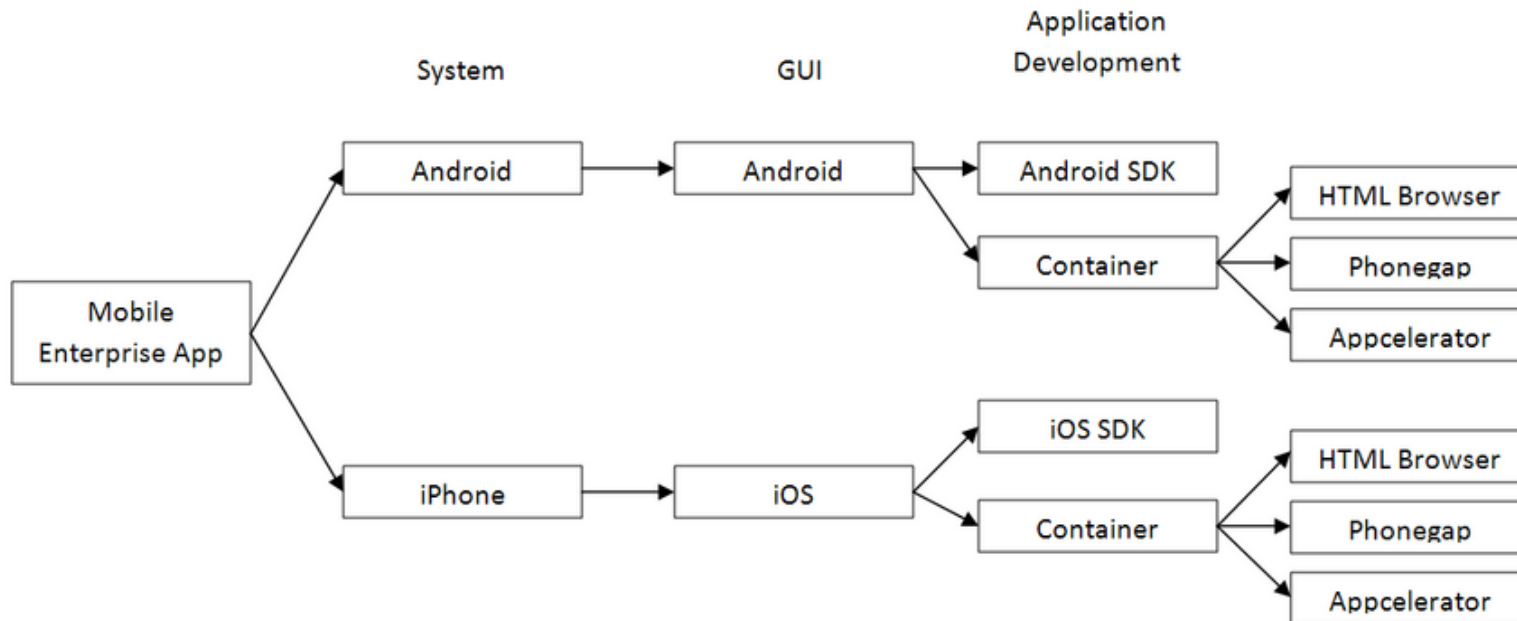
Goal – The App



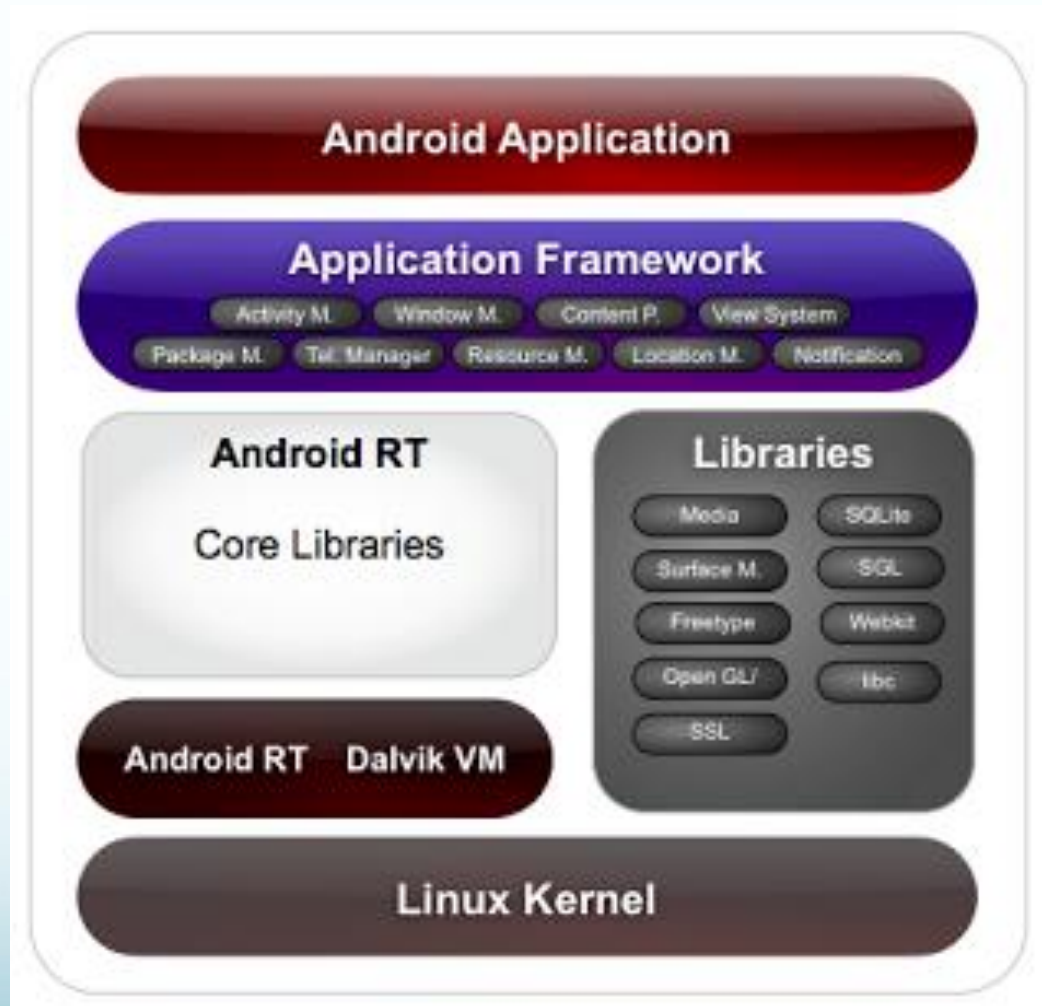
History – Enterprise App



Now – Mobile App



Architecture



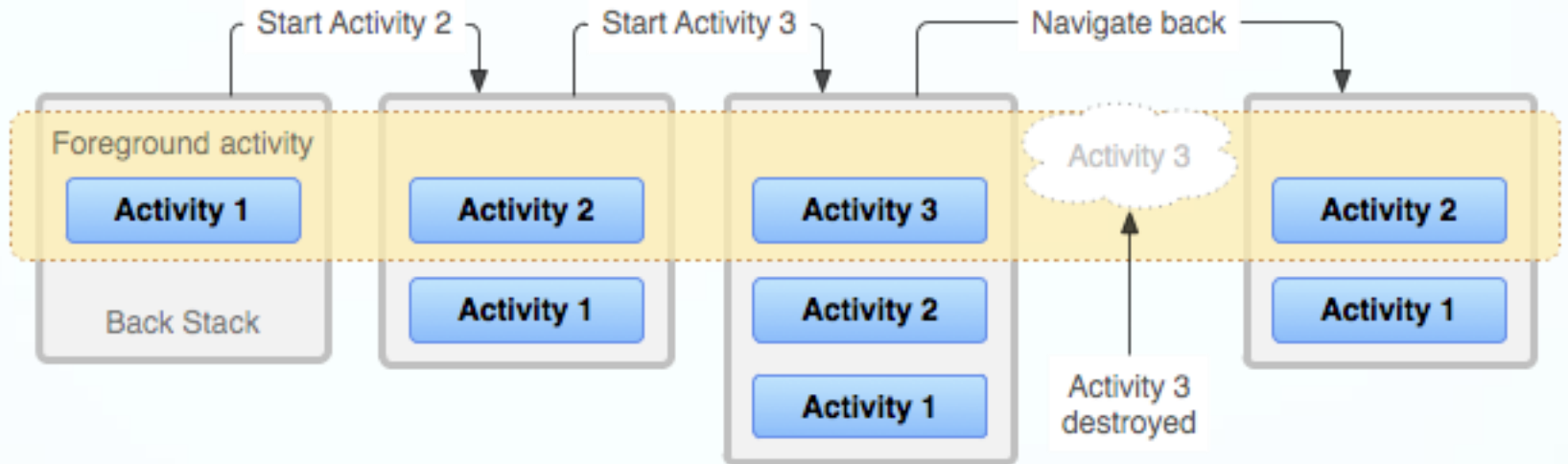
Tools

- Java SDK
- Eclipse 3.7 & up
- Android SDK
- SDK APIs
- Android device

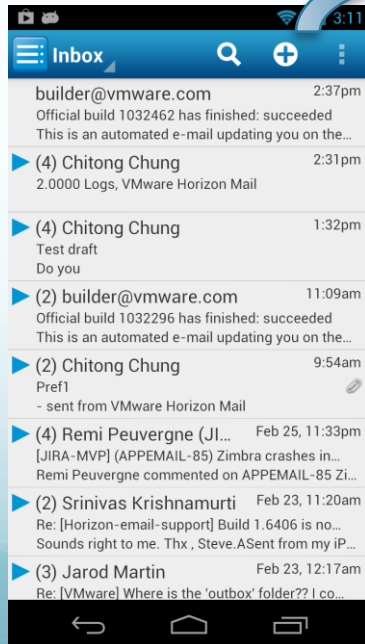
Application components

- An Application consists of
 - Activities / Fragments
 - Services
 - Content Providers
 - Broadcast Receivers
- Other Application related Objects
 - Task (<http://developer.android.com/guide/components/tasks-and-back-stack.html>)
 - Process

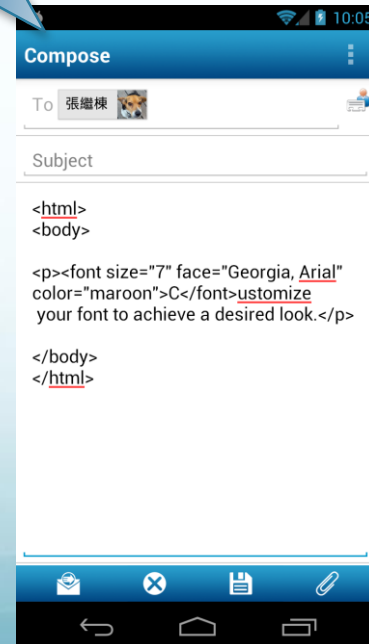
Activity stack



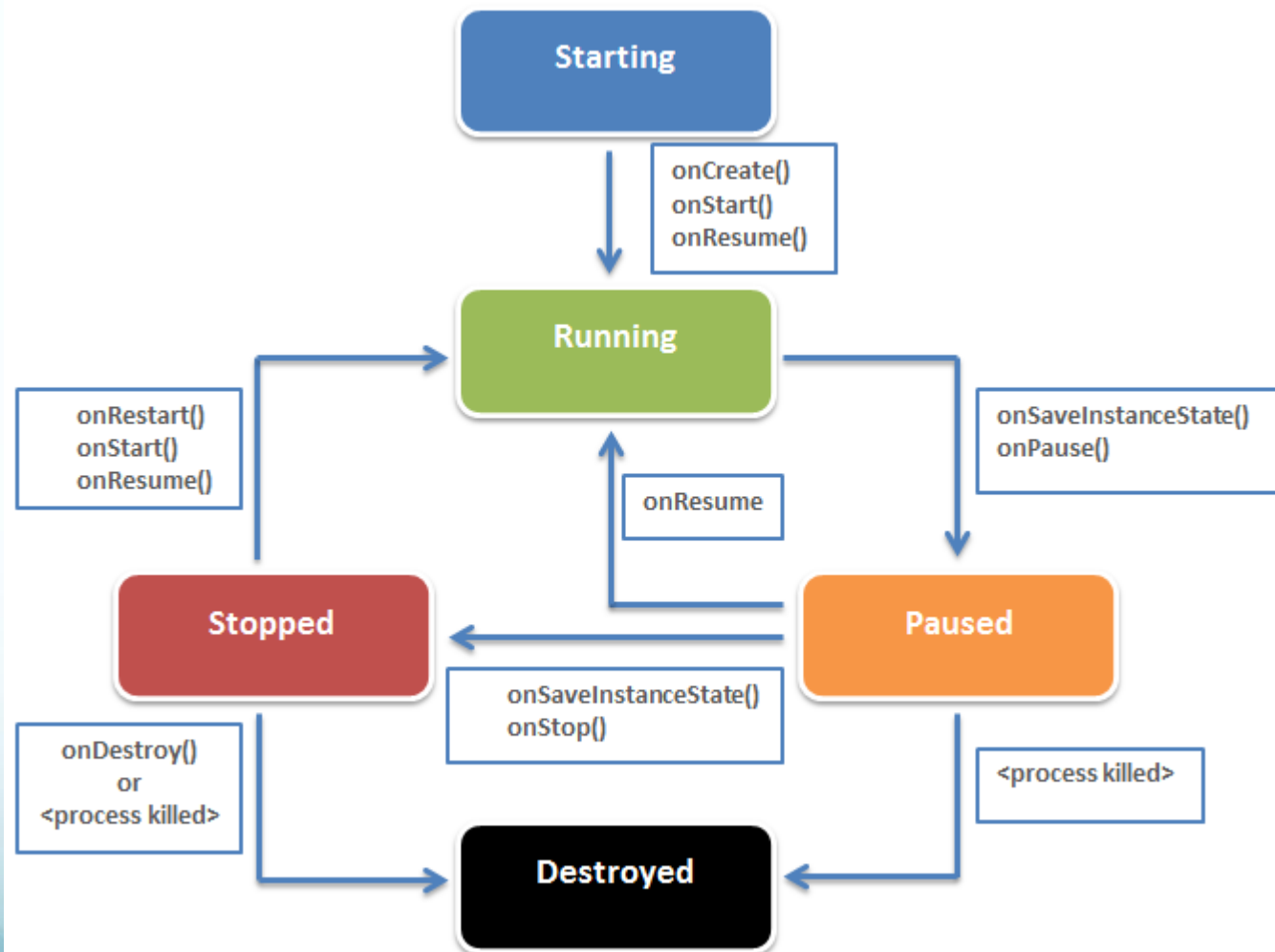
Activity 1



Activity 2



Activity Lifecycle



UI Components

- LinearLayout
- RelativeLayout
- TextView / Button
- ListView
- Menu
- Dialog
- ...

UI layout xml

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
    android:layout_margin="32dp"
```

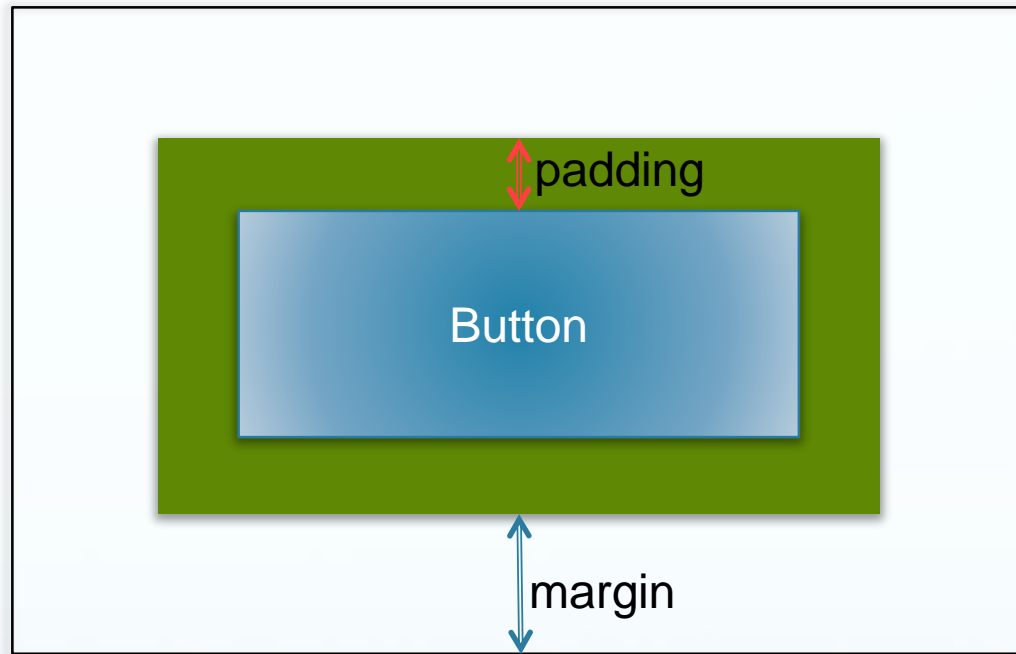
```
    android:padding="16dp"
```

```
    android:orientation="vertical"
```

```
    android:background="#ff00ff00"
```

```
/>
```

LinearLayout



Start coding

Create a new Android App Project
via Eclipse Wizard