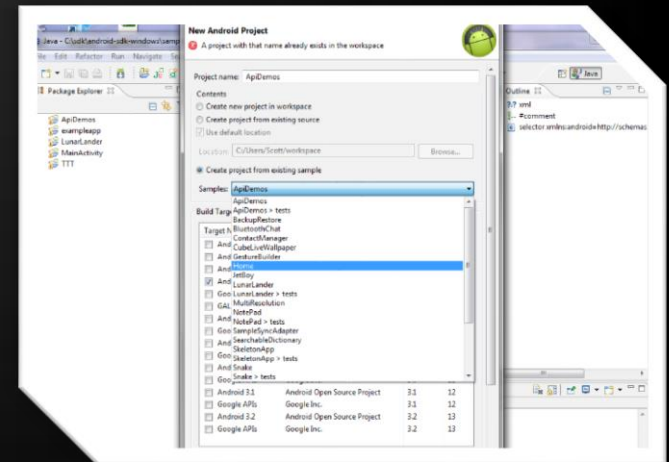




<http://academy.telerik.com>



- ◆ **Android architecture and application development model**
- ◆ **Install and configure an Android application development environment**
- ◆ **Develop and deploy a simple Android application**



Android Architecture

ARCHITECT



What my friends think I do



What my mom thinks I do



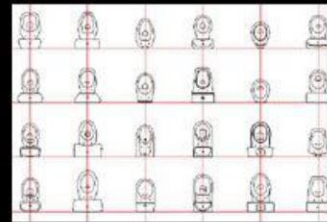
What society thinks I do



What contractors think I do

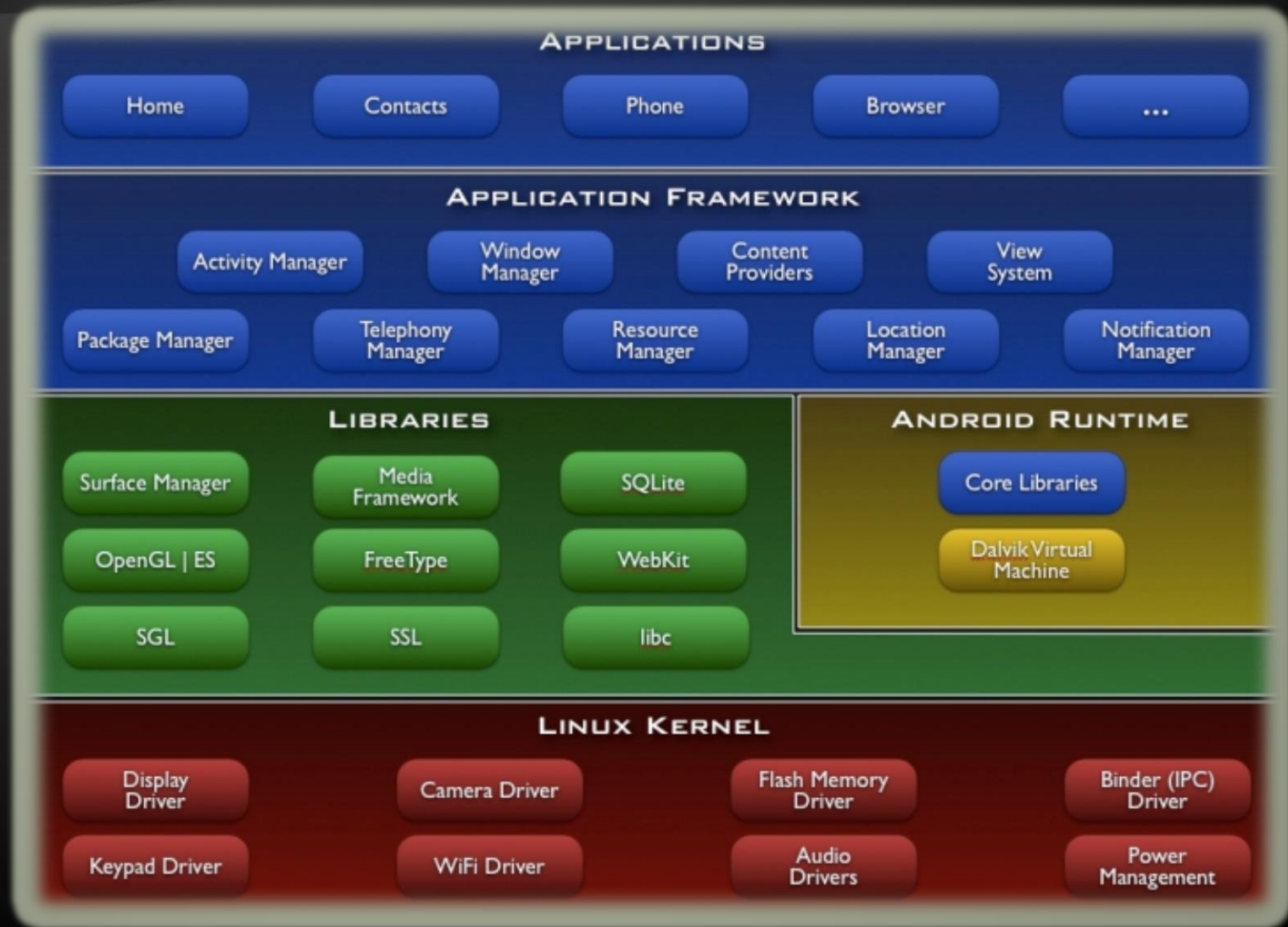


What I think I do



What I really do

Android Architecture



Application Building Blocks

- ◆ **Activity**

- ◆ UI component (one screen)

- ◆ **IntentReceiver**

- ◆ Responds to notifications or status changes.
Can wake up your process.

- ◆ **Service**

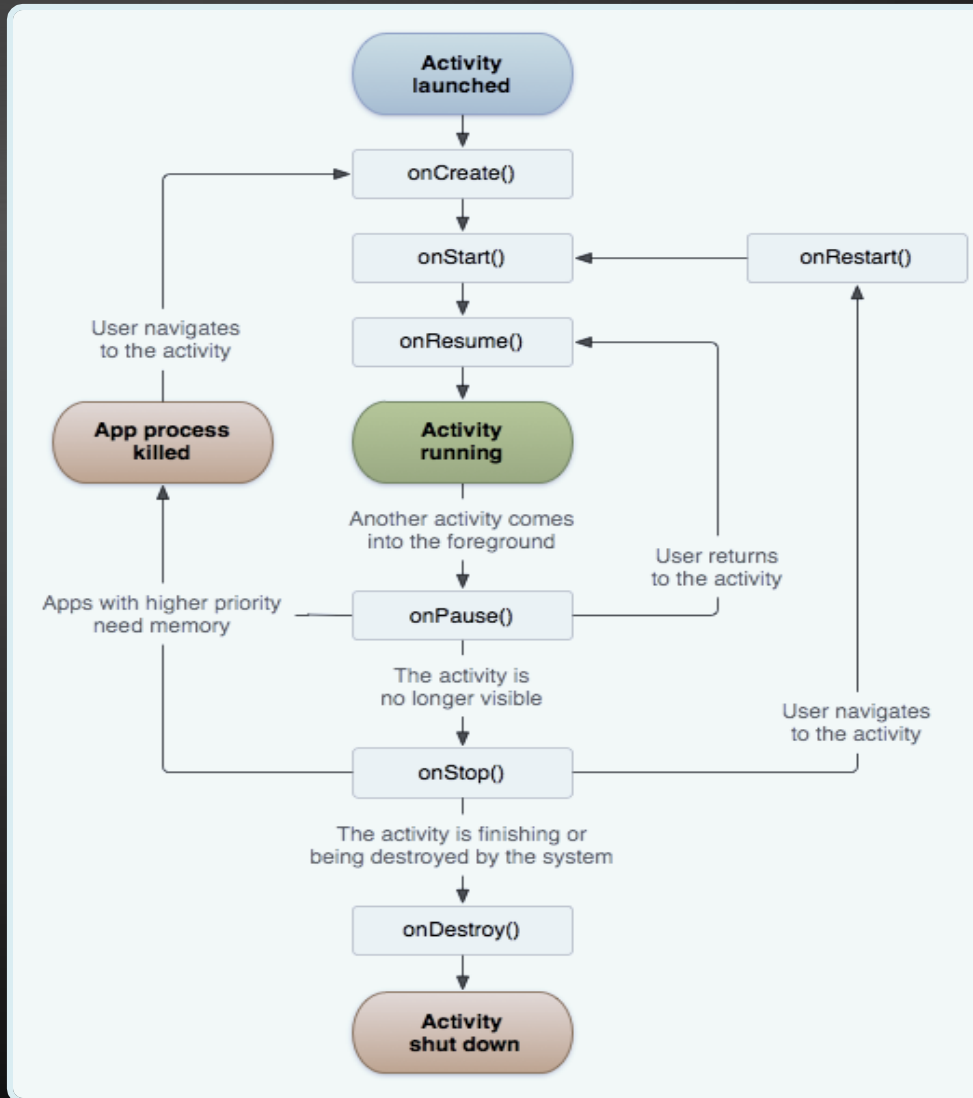
- ◆ Faceless task that run in the background.

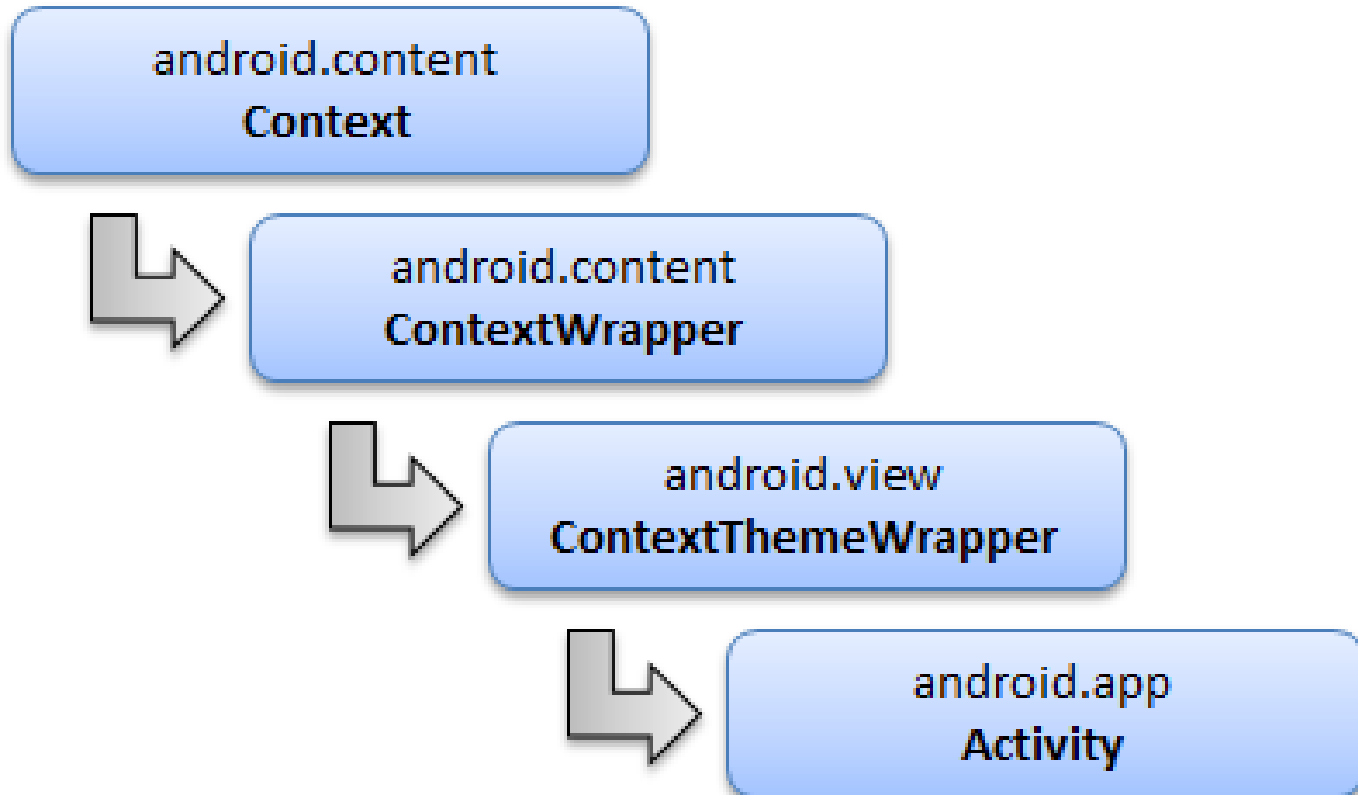
- ◆ **ContentProviders**

- ◆ Enable applications to share data.

Activity









Intents

Live Demo

- ◆ **Activity to Activity communication**
 - ◆ **dataType**
 - ◆ **Object**
 - ◆ **Start with result**
- ◆ **Intent select image from gallery**
- ◆ **Intent share link with facebook**

Android Resources



Primitive data type resources

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
  <string name="app_name">To Do List</string>
  <color name="app_background">#FF0000FF</color>
  <dimen name="default_border">5px</dimen>
  <array name="string_array">
    <item>Item 1</item>
    <item>Item 2</item>
    <item>Item 3</item>
  </array>
  <array name="integer_array">
    <item>3</item>
    <item>2</item>
    <item>1</item>
  </array>
</resources>
```

Simple Resource Types

- String
- Color
- Dimension
- Array

- drawable-hdpi
 - ic_launcher.png
- drawable-ldpi
 - ic_launcher.png
- drawable-mdpi
 - ic_launcher.png
- layout
 - list_item.xml
 - main.xml
 - single_list_item.xml
- values
 - strings.xml

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <resources>
3     <string-array name="mitko">
4         <item>One1</item>
5         <item>One2</item>
6         <item>One3</item>
7         <item>One4</item>
8         <item>One5</item>
9     </string-array>
10
11     <bool name="test">true</bool>
12
13     <style name="mitko_test">
14         <item name="android:textSize">100sp</item>
15         <item name="android:textColor">#ff1234</item>
16     </style>
17 </resources>
```

Element : item
Content Model : 0*
Press 'F2' for focus

Image Resources





Getting Started with Android

Questions?

1. Create an android application that has two activities:
 - ♦ One that has a edittext and a button. The button sends the info from the edittext through an intent
 - ♦ And one that shows the info that is passed from the first activity
2. Create an android application with gridView
 - ♦ Use the demo about the listView implementation from the video