Designer can code

Lecture 2 by Tom Lau

Aims

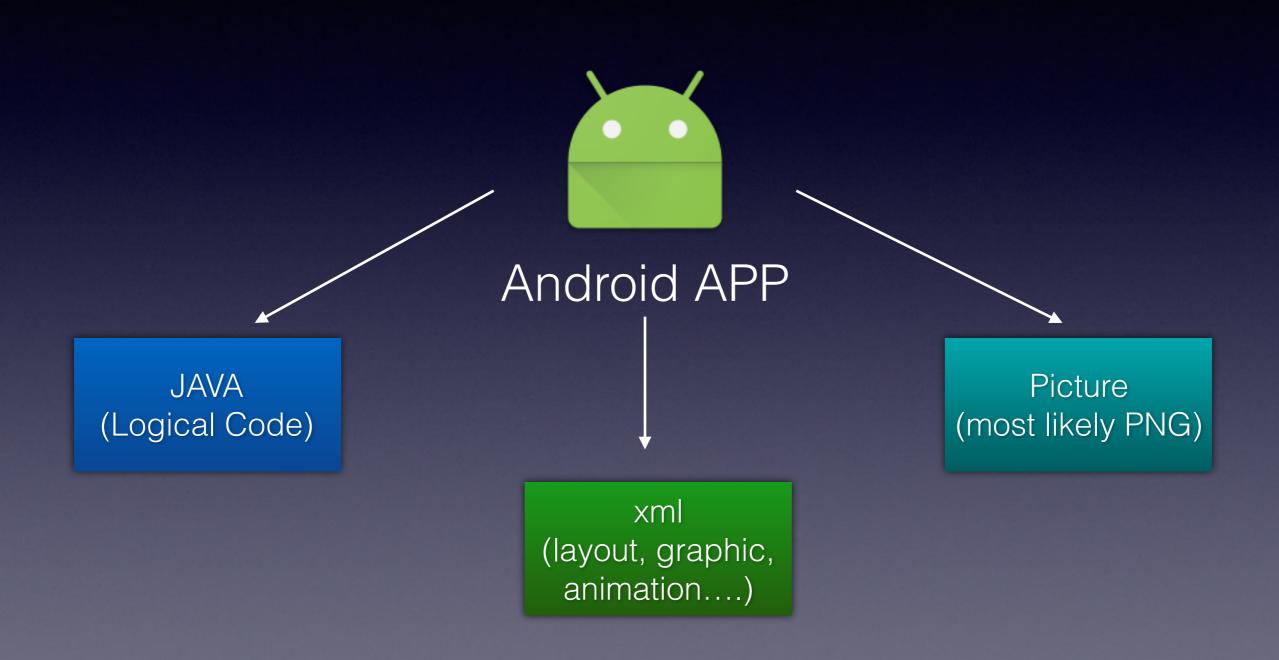
Style.xml and drawable.xml

Basics Concept of Material Design

Animation

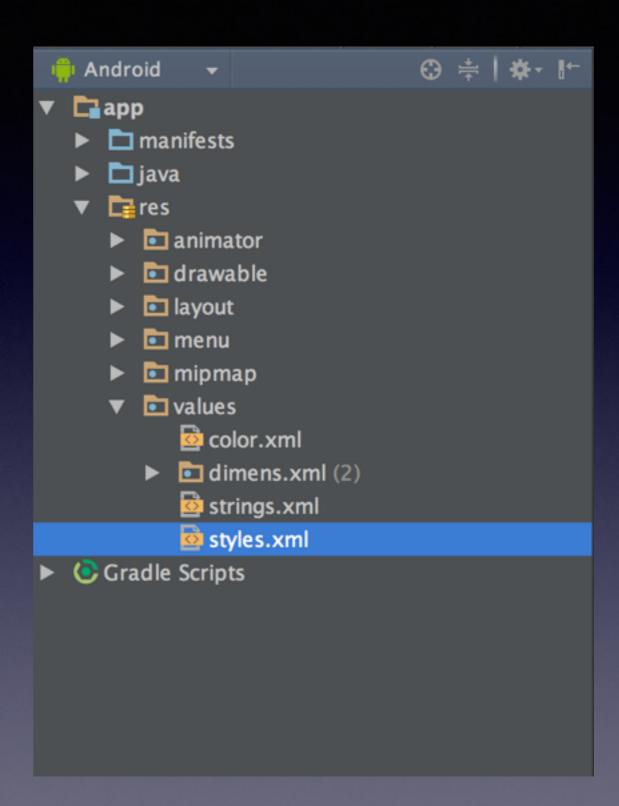
OnClickListener (Click Response)

Basic Knowledge of Android APP



Styles.xml

Customize your theme here.



Theme

Hide ActionBar

Set Color Scheme

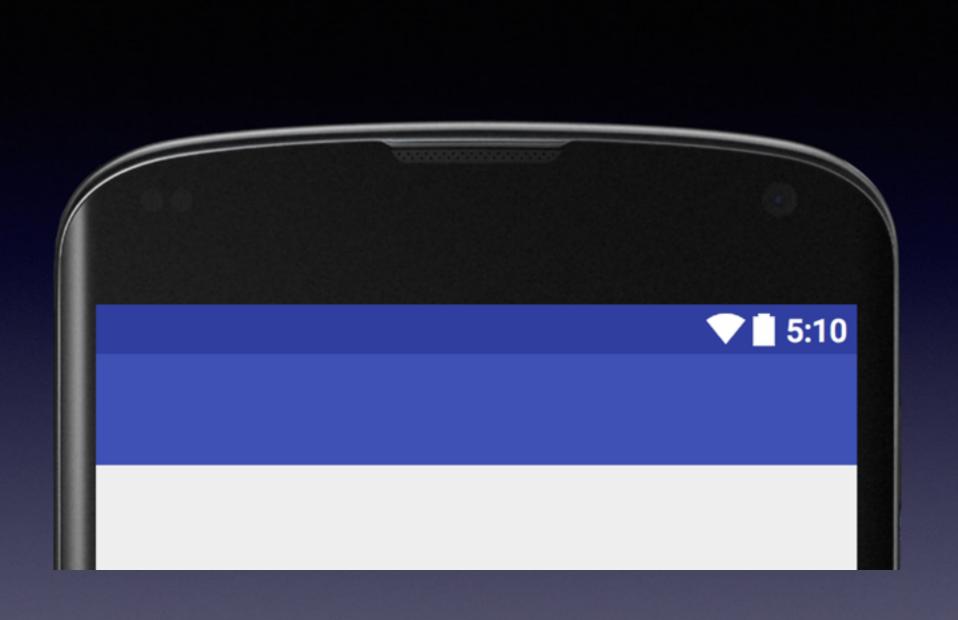
Default value of the property



Designer Can Code Lecture1

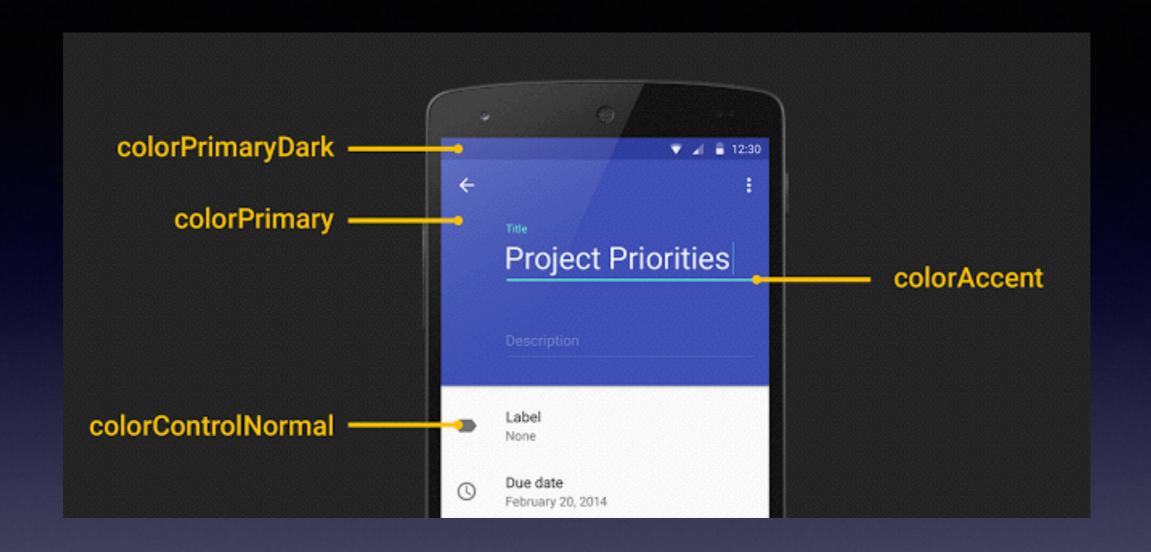
ActionBar

An limited control area



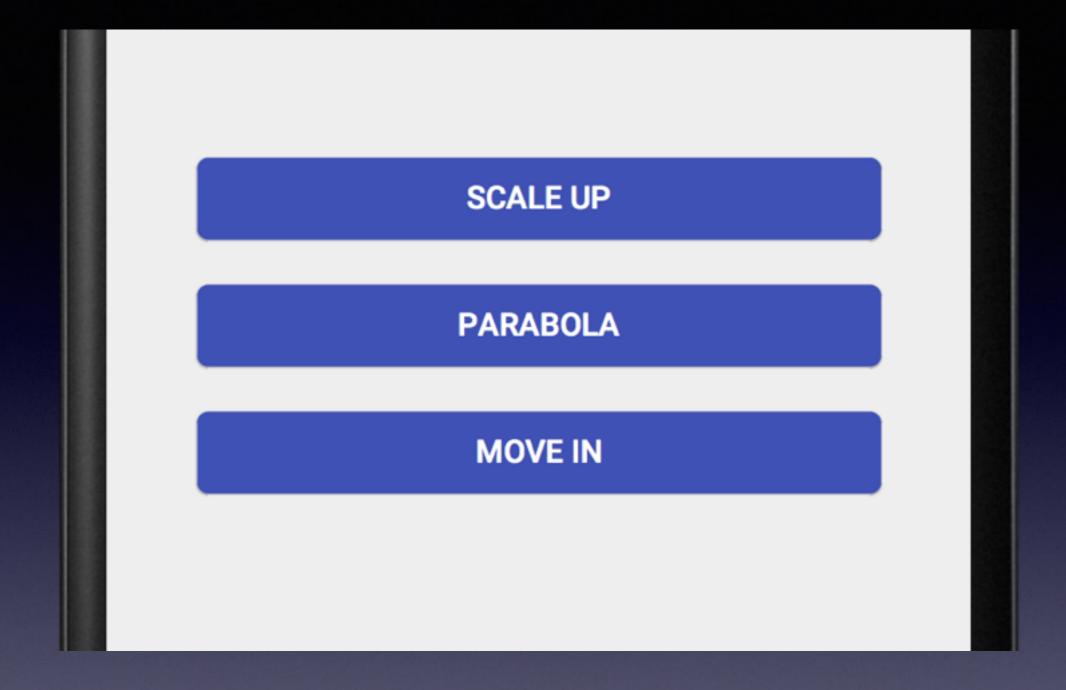
ToolBar

More controllable ActionBar



Material Design

Color Scheme



Material Design Button

It is not compatible with Android 5.0 below but you can make it compatible like

XML in Drawable

layer-list

selector

ripple

```
<?xml version="1.0" encoding="utf-8"?>
<layer-list xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:bottom="10dp"
        android: left="10dp"
        android: right="10dp"
        android:top="@dimen/trans_pad">
        <shape android:shape="rectangle">
            <corners android:radius="5dp" />
            <solid android:color="@color/primary" />
            <padding</pre>
                android:bottom="20dp"
                android:left="@dimen/btn_padding"
                android:right="20dp"
                android:top="@dimen/btn_padding" />
        </shape>
    </item>
</layer-list>
```

layer-list

It can contain many item by using layer approach

the top layer will be the bottom item at xml

 it can use four properties, left, right, top and bottom, to item position

selector

 the item in selector can have different state, like state_pressed, enable, long press

 It is common to be used as a button background before Android 5.0

ripple

- It only need to mention item drawable and set the color property
- The animation will auto generated
- Be careful, it only support Android 5.0 or above device, so create drawable-v21 folder please!!!!



OnClickListener

- OnClickListener is a things on JAVA to handle the click event
- Each Listener should to be set at at least one view in order to trigger event

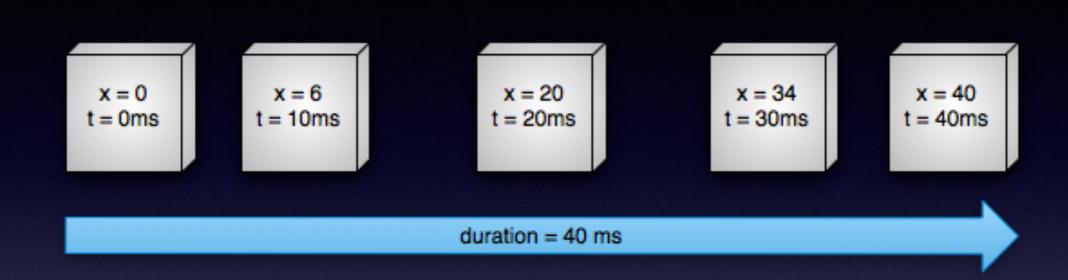
SCALE UP

MOVE IN

Button Testing

Toast

Toast is message dialog on the screen it will disappear in a few second.



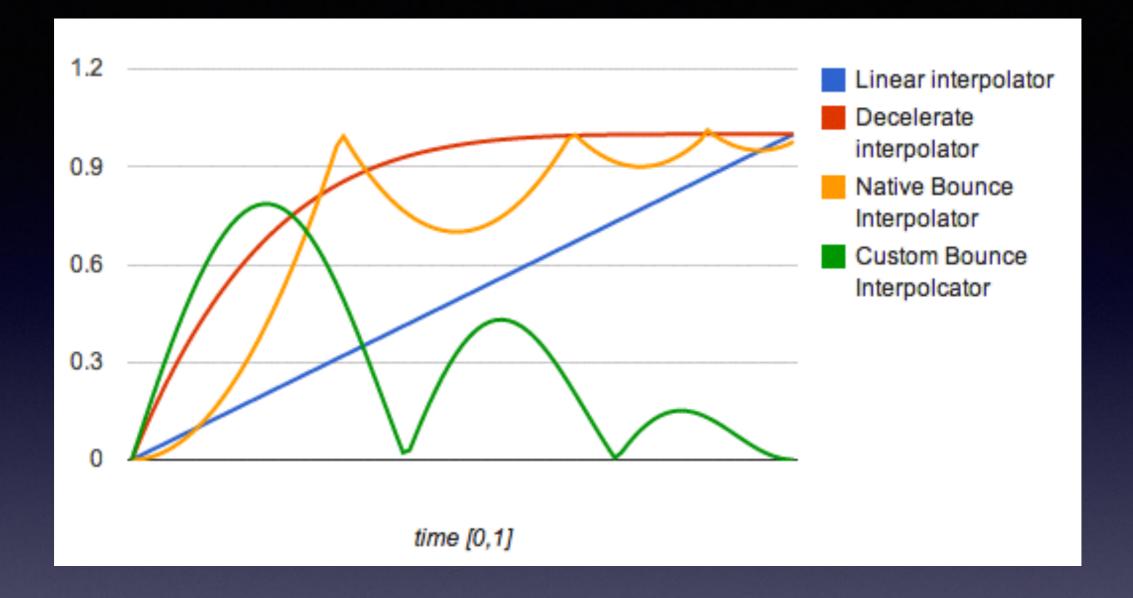
ObjectAnimator

A thing that keep changing a properties very fast

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
    <objectAnimator</pre>
        android:duration="500"
        android:interpolator="@android:anim/overshoot_interpolator"
        android:valueFrom="0"
        android:valueTo="1"
        android:valueType="floatType"
        android:propertyName="scaleX"/>
    <objectAnimator</pre>
        android:duration="500"
        android:interpolator="@android:anim/overshoot_interpolator"
        android:valueFrom="0"
        android:valueTo="1"
        android:valueType="floatType"
        android:propertyName="scaleY"/>
</set>
```

ObjectAnimator

ObjectAnimator can put in a set so that it can cooperate with other



interpolator

It is a thing to mention how the value change

ObjectAnimator

 Since ObjectAnimator is to change the properties of a View in order to have animation effect, a customise animation need to customise a View to have a new property to change

