

# មន្ត្យមន្ត្ចាល់អូរ៉េស់ សម្វាំទេរ អេច អ ឌី Korea Software HRD Center

Android

Style & Gradient & Selector

ណែនាំដោយ : បណ្ឌិត គីម ថេខ្យុង







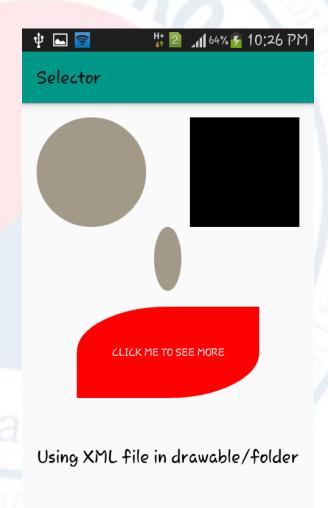


- 9. Shape
- ២. Gradients
- M. Selectors
- ៤. Style

### 9. Shape

#### ☐ How to create shape

- 1) Create file XML in drawable/ folder
- 2) Assign it to a View(Layout)



### **9**. Shape (箭)

#### ☐ How to create shape

1) Create file XML in drawable/ folder

2) Assign it to a View(Layout) Create shape1 in drawable/ folder

Change root tag from selector to shape

```
<?xml version="1.0" encoding="utf-8"?>
(shape xmlns:android="http://schemas.android.com/apk/res/android"
   android:shape="rectangle" >
    <stroke
       android:color="@color/red"
       android:width="3dp"/>
    <corners
        android:bottomLeftRadius="5dp"
       android:bottomRightRadius="5dp"
       android:topLeftRadius="5dp"
       android:topRightRadius="5dp"/>
    <padding</pre>
       android:bottom="20dp"
       android:left="20dp"
       android:right="20dp"
        android:top="20dp" />
       android:width="200dp"
       android:height="50dp"/>
</shape>
```

### **9.** Shape (箭)

#### 2) Assign it to a Layout

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
    android:layout width="match parent"
    android:layout height="match parent"
    android:paddingRight="10dp"
    android:paddingLeft="10dp"
    android:orientation="vertical">
    <!--apply shape file to Linearlayout-->
    <LinearLayout</p>
        android:layout marginTop="10dp"
        android:layout gravity="center horizontal"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:background="@drawable/shape1">
        <TextView
            android:layout width="match parent"
            android:layout height="match parent"
            android:text="Welcome To KSHRD"
            android:textSize="30dp"
            android:gravity="center"
            android:textColor="@color/white"/>
    </LinearLayout>
</LinearLayout>
```



♥ 6:00











Gradient ជា Drawable មួយដែលមាន color ជាលក្ខណះ gradient ប្រើសំរាប់ដាក់ទៅអោយ buttons, backgrounds, ។ល។ ហើយវាត្រូវបានគេ define ក្នុង Xml file ជាមួយនិង <shape> element។

• <gradient> មាន attribute ជាច្រើនដែលមានតួនាទីខុសៗគ្នា

# <u>ක</u>. Gradient (육)

### ✓ ឧទាហរណ៏៖

```
6:00
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"</pre>
                                                                               Shape And Gradients
    android:shape="rectangle" >
    qradient
                                                                                   Welcome To KSHRD
        android:angle="45"
        android:endColor="#87CEEB"
        android:centerColor="#768087"
        android:startColor="#000"
        android:type="linear" />
    <stroke
        android:color="@color/red"
        android:width="3dp"/>
    <corners
        android:bottomLeftRadius="5dp"
        android:bottomRightRadius="5dp"
        android:topLeftRadius="5dp"
        android:topRightRadius="5dp"/>
    <padding</pre>
        android:bottom="20dp"
        android:left="20dp"
        android:right="20dp"
        android:top="20dp" />
    <size
        android:width="200dp"
        android:height="50dp"/>
</shape>
```

### **m**. Selector

🖵 Selector : ប្រើសម្រាប់ custom នូវ View background ដូចជា Button ៕

### State របស់ object ដែលប្រើជាមួយ selector

- android:state\_activated : set true ប្រសិនបើ object is activated
- android:state\_window\_focused: set true when the application window has focus

### € Selector (😭)



# &. Styles

- □ Style : គឺជាបណ្ដុំនៃ Property ដែលច្រើសម្រាប់ format View ដូចជា ៖ height, padding, font color, font size, background color ។
  - i. Defining Styles
  - ii. Inheritance
  - iii. Apply a style to a View
  - iv. Apply a theme to an Activity or application

#### **XML**

```
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:textColor="#00FF00"
    android:typeface="monospace"
    android:text="@string/hello" />
```

# **៤**. Styles (箭)

i. Defining Style

ii. Inheritance

iii. Apply a style to a View

#### save an XML file in the res/values/

```
<TextView

style="@style/CodeFont"

android:text="@string/hello" />
```

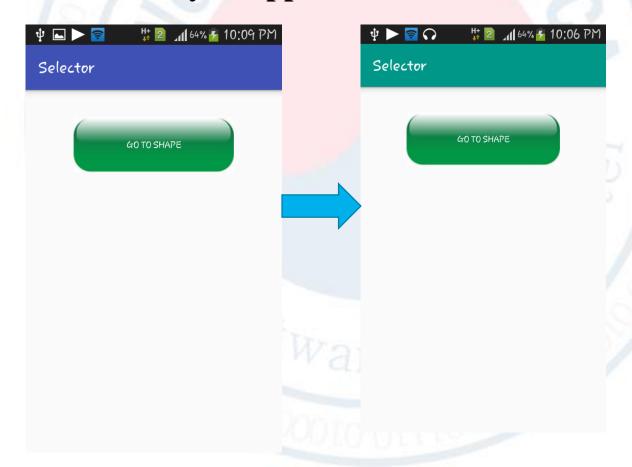
Style="@style/CodeFont.Red"

# **៤**. Styles (寄)

- ☐ Apply a theme to an Activity or application
- > ដើម្បីកំណត់ theme មួយសម្រាប់ activity ទាំងអស់នៃ app របស់អ្ន, បើក
  AndroidManifest.xml file និងកែ <application> tag ដោយដាក់ android:theme attribute ជាមួយ
  នឹងឈ្មោះរបស់ style ។
  - √ 29ทีมีที่: <application android:theme="@style/CustomTheme">
- > យើងក៏អាចកំណត់ theme មួយសម្រាប់ activity មួយក៏បានដែរ
  - √ ខូទាហ្សាណ៍: <activity android:theme="@android:style/Theme.Dialog">

# . Styles (奇)

☐ Apply a theme to an Activity or application

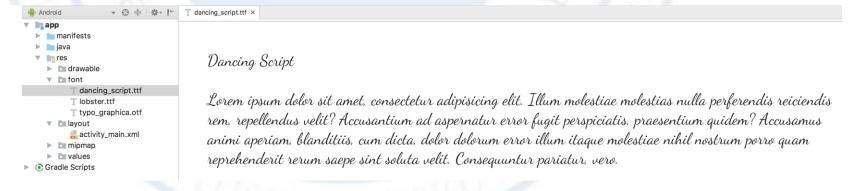


## දී. Fonts in XML

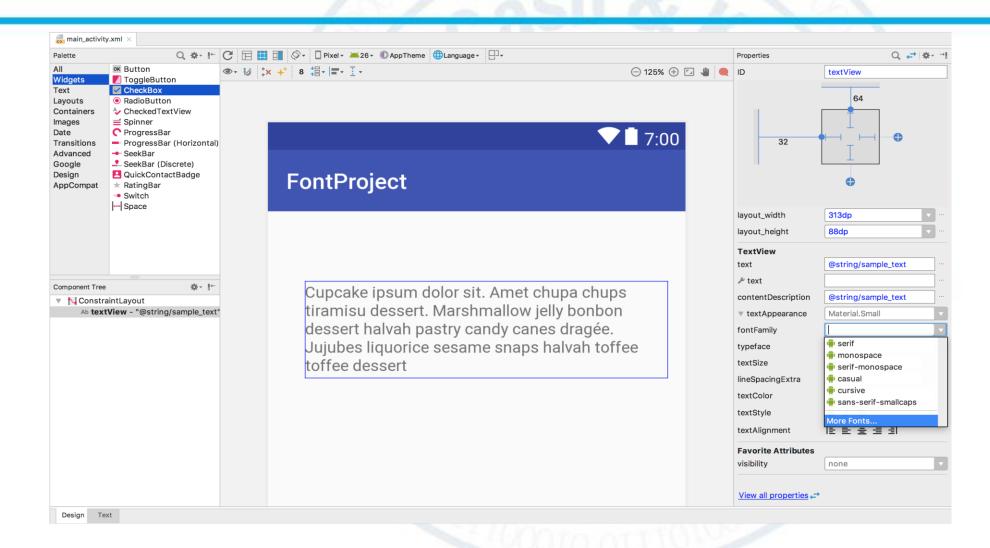
#### □Font in XML with Android 8.0 (API level 26)

- > Feature ថ្មីរបស់ android 8.0 បានដា<mark>ក់អោយប្រើប្រាស់ font resources ។ វា</mark>ជា font file នៅក្នុង res/font-folder/font\_name ។
- > เมียุ Acess Font resource : @font/myfont, or R.font.myfont





# සී. Fonts in XML



## <mark>డ</mark>. Fonts in XML

