

# Styles and Themes

- ▶ A style is a set of properties that have effects on how a View or Window looks like.
- ▶ These properties specify the font size, the font family, the background color, font color and so on.
- ▶ it separates the content structure from how it is displayed on the screen.
- ▶ A theme is a set of styles and can be applied to the whole app or to a single Activity. It helps to create an appealing user interface.

# Styles and Themes

- ▶ Styles in Android allow you to define the look and feel, of Android components in XML resource files.
- ▶ This way you have to set common style attributes only once in one central place.
- ▶ Styles work by defining style names associated with a series of properties to apply to a view.
- ▶ Styles can also inherit from other style and compound styles can be created as well.

# Styles and Themes

- ▶ To apply a consistent theme to all activities within our application.
- ▶ Instead of applying the style to a particular individual view, you can apply a collection of styles as a **Theme** to an Activity or application.
- ▶ When you do so, every View within the Activity or application will apply each property that it supports.

# Styles and Themes

- ▶ You can create a theme the same way you create styles.
- ▶ The difference is how you apply it: instead of applying a style with the style attribute on a view, you apply a theme with the android:theme attribute on either the <application> tag or an <activity> tag in the AndroidManifest.xml file.

# TextView Without a Style

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:background="#FF0000"  
    android:text="Hello style"  
    android:textColor="#FFFFFF"  
    android:textSize="14sp" >  
</TextView>
```

# Creating a Style

```
<resources
xmlns:android="http://schemas.android.com/apk/res/android" >
<style
name="MyTextStyle"
parent="@android:style/TextAppearance" >
<item name="android:textColor">#FF0000</item>
<item name="android:textSize">20sp</item>
</style>
</resources>
```

# TextView without a Style vs. TextView with a style

```
<TextView
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:text="Hello without style"
```

```
    android:textColor="#FF0000"
```

```
    android:textSize="14sp" >
```

```
<TextView
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:text="Text with style"
```

```
    style="@style/MyTextStyle"/>
```

# Creating a Theme

```
<style  
name="AllGreen"  
parent="@android:style/Theme.Black" >  
<item name="android:background">#00FF00</item>  
</style>
```

**and then we apply it to the application in the Manifest.xml:**

```
<application  
android:icon="@drawable/ic_launcher"  
android:label="@string/app_name"  
android:theme="@style/AllGreen" >  
</application>
```



```
<resources xmlns:android="http://schemas.android.com/apk/res/android" >
    <style
        name="MyTextStyle"
        parent="@android:style/Widget.TextView" >
        <item name="android:textColor">#FF0000</item>
        <item name="android:textSize">14sp</item>
    </style>

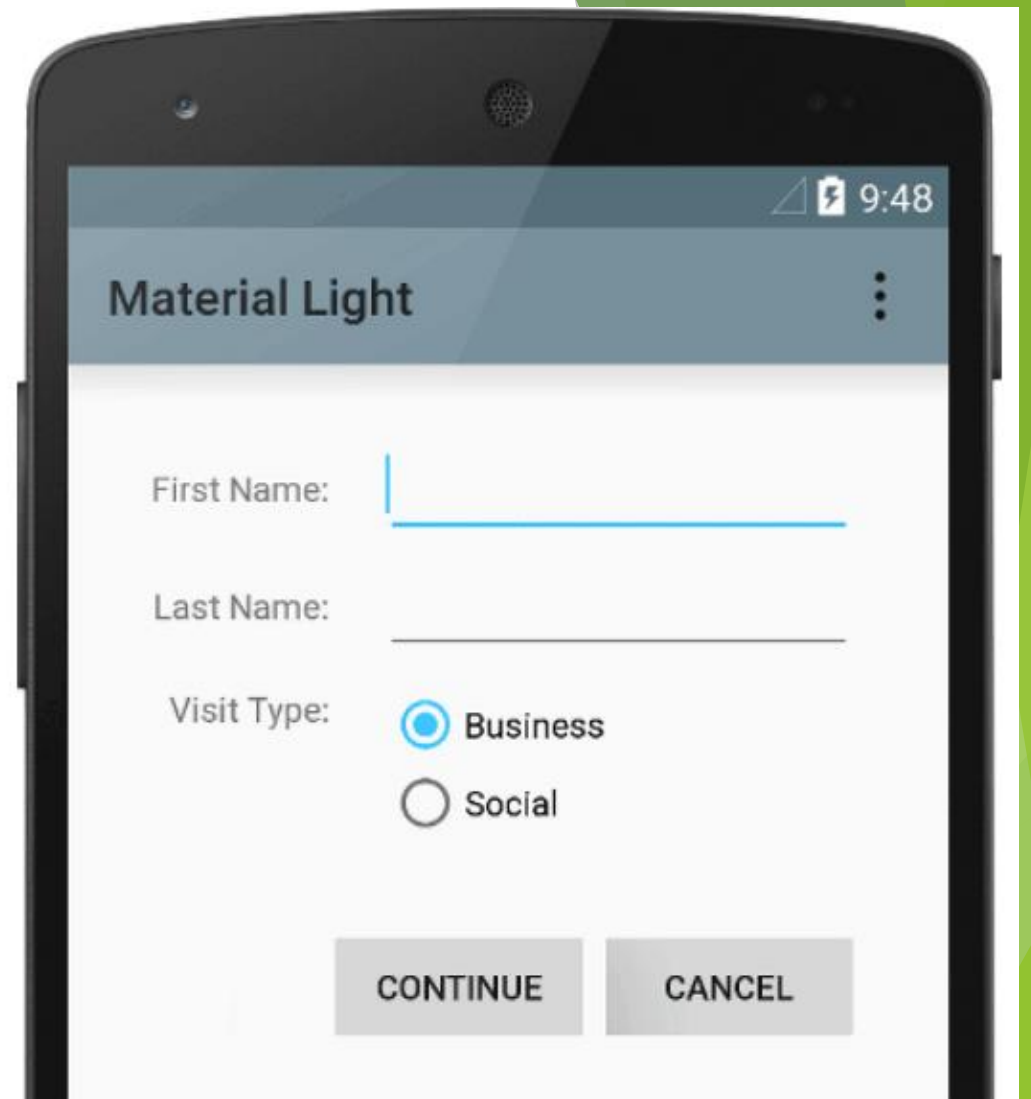
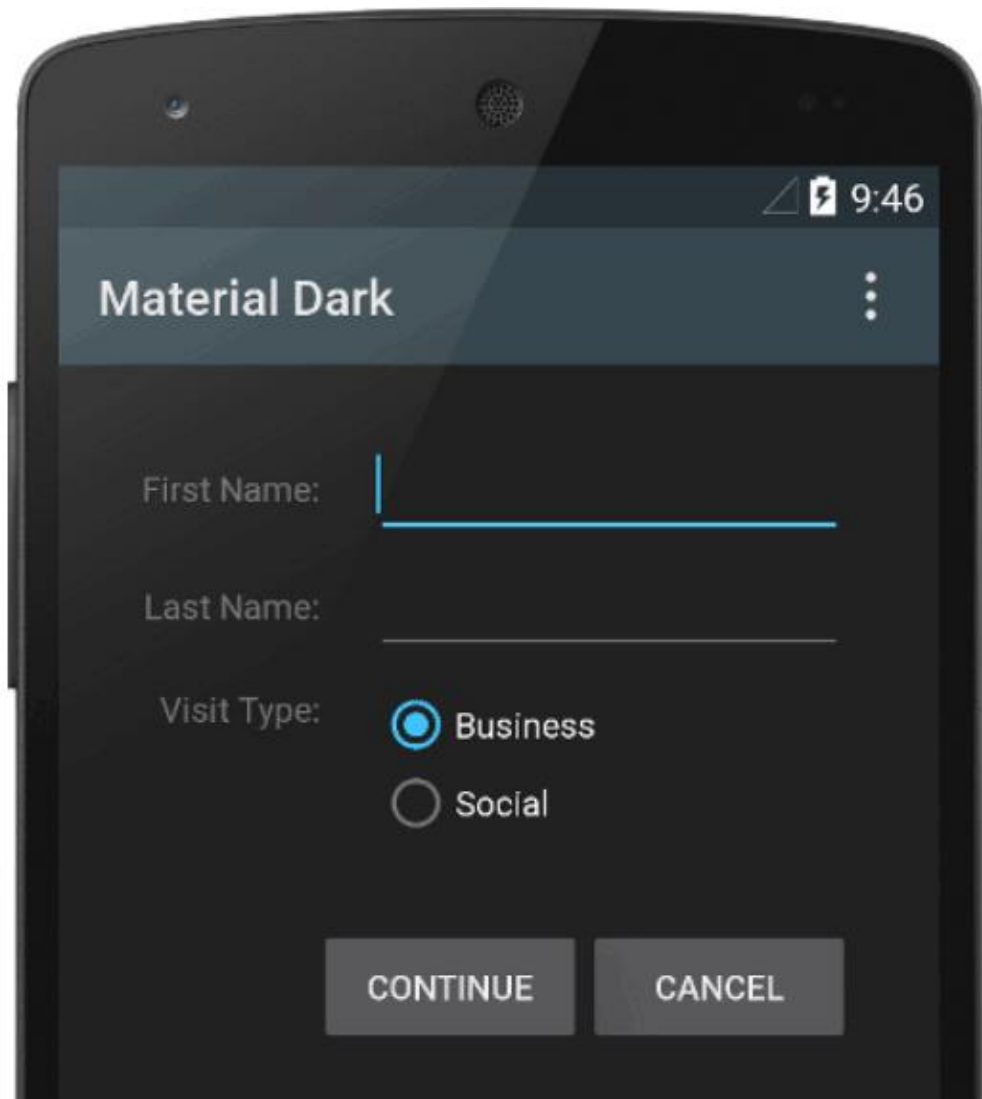
    <style
        name="AllGreen"
        parent="@android:style/Theme.Black" >
        <item name="android:background">#00FF00</item>
        <item name="android:textViewStyle">@style/MyTextStyle</item>
    </style>
</resources>
```

```
<style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
    <!-- Customize your theme here. -->
    <item name="colorPrimary">@color/colorPrimary</item>
    <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
    <item name="colorAccent">@color/colorAccent</item>
</style>
```

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <!-- color for the app bar and other primary UI elements -->
    <color name="colorPrimary">#3F51B5</color>

    <!-- a darker variant of the primary color, used for
         the status bar (on Android 5.0+) and contextual app bars -->
    <color name="colorPrimaryDark">#303F9F</color>

    <!-- a secondary color for controls like checkboxes and text fields -->
    <color name="colorAccent">#FF4081</color>
</resources>
```



Theme.AppCompat (left) and Theme.AppCompat.Light (right)