Programming Resources

Android Resources: (Color, Theme, String, Drawable, Dimension, Image),

# Defining Color Property.

## Create a new project and go to: ProjectName>App>src>main>res>values>**colors.xml**

* 1. Defining new color properties in **colors.xml**

Colors.xml

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

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="<http://schemas.android.com/apk/res/android>"

xmlns:app="[http://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:tools="<http://schemas.android.com/tools>" android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainActivity">

<LinearLayout android:layout\_width="409dp" android:layout\_height="729dp" android:orientation="vertical" tools:layout\_editor\_absoluteX="1dp" tools:layout\_editor\_absoluteY="1dp">

<TextView android:id="@+id/textView"

android:layout\_width="match\_parent" android:layout\_height="56dp" android:text="TextView"

android:background="@color/Red"

/>

<TextView android:id="@+id/textView2"

android:layout\_width="match\_parent" android:layout\_height="52dp" android:text="TextView"

android:background="@color/Grey"

/>

<TextView android:id="@+id/textView3"

android:layout\_width="match\_parent" android:layout\_height="59dp" android:text="TextView"

android:background="@color/Blue"

/>

<TextView android:id="@+id/textView4"

android:layout\_width="match\_parent" android:layout\_height="51dp" android:text="TextView"

android:background="@color/Cyan"

/>

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**Defining Theme Property.**

styles.xml

<**resources**>

*<!-- Base application theme. -->*

<**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**>

<**item name="android:background"**>#000000</**item**>

<**item name="android:textColor"**>#FFFFAA</**item**>

</**style**>

</**resources**>

# Defining string property

strings.xml

<resources>

<**string name="app\_name"**>Prof. Shahid Ansari</**string**>

<**string name="Heading"**>Programming Resources</**string**>

<string name="Description">

Android is a mobile operating system developed by Google.

It is based on a modified version of the Linux kernel and other open source software, and is designed primarily for touch screen mobile devices such as smart phones and tablets

</**string**>

</**resources>**

Now go to **activity\_main.xml** and type the following code

<TextView android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="56dp"

android:background="@color/Red"

android:text="@string/Heading"

android:textSize="24sp" />

<TextView android:id="@+id/textView2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:background="@color/Grey"

android:text="@string/Description"

android:textSize="24sp" />

**Adding images and dimensions**

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

<resources>

<**dimen name="textview\_height"**>35dp</**dimen**>

<**dimen name="textview\_width"**>150dp</**dimen**>

<**dimen name="font\_size"**>26sp</**dimen**>

</**resources**>

Now go to **activity\_main.xml** and type the following code:

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

<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="**[**http://schemas.android.com/apk/res/android**](http://schemas.android.com/apk/res/android)**"**

**xmlns:app="**[**http://schemas.android.com/apk/res-auto"**](http://schemas.android.com/apk/res-auto) **xmlns:tools="**[**http://schemas.android.com/tools**](http://schemas.android.com/tools)**" android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainActivity"**>

<**LinearLayout android:layout\_width="409dp" android:layout\_height="729dp" android:orientation="vertical" tools:layout\_editor\_absoluteX="1dp" tools:layout\_editor\_absoluteY="1dp"**>

<**ImageView android:id="@+id/imageView" android:layout\_width="match\_parent" android:layout\_height="wrap\_content"**

</**LinearLayout**>

</**androidx.constraintlayout.widget.ConstraintLayout**>