



PROGRESS BAR IN ANDROID STUDIO

Place the image "download.png" in your drawable folder to feature for the clickable ImageView and the Progress Dialog icon.



download.png

activity_main.xml [Text]

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="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">
```

<ImageView

```
    android:id="@+id/download"
    android:layout_width="75dp"
    android:layout_height="75dp"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="250dp"
    android:contentDescription="@string/download_icon"
    android:src="@drawable/download" />
```

<TextView

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/download"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="-250dp"
    android:text="@string/download"
    android:textColor="@color/colorAccent"
    android:textSize="15sp" />
```

</RelativeLayout>

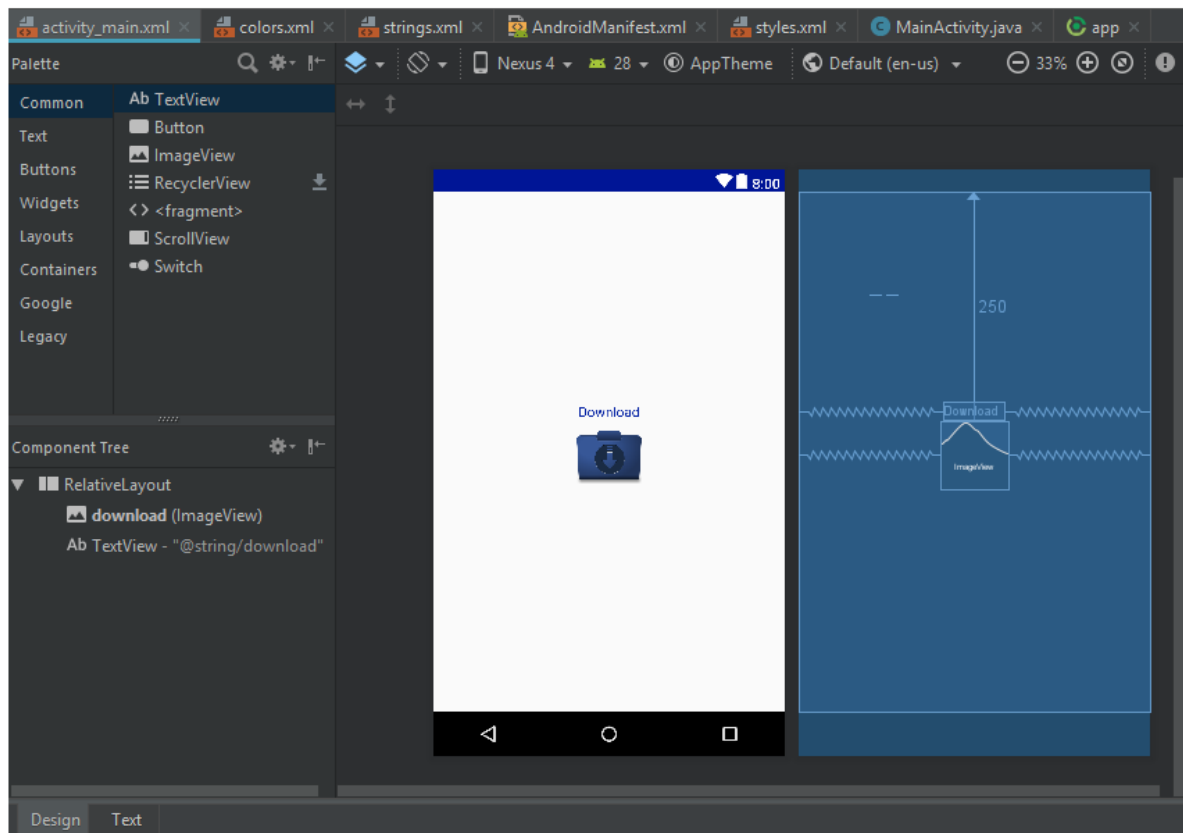
strings.xml

<resources>

```
    <string name="app_name">Progress Bar</string>
    <string name="download_icon">download_icon</string>
    <string name="download">Download</string>
```

</resources>

activity_main.xml [Design]



MainActivity.java

```
package robert.karamagi.progressbar;
```

```
import android.app.ProgressDialog;
```

```
import android.os.Handler;
```

```
import android.support.v7.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.ImageView;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
```

```
ImageView imageView;  
ProgressDialog progressBar;  
private int progressStatus = 0;  
private Handler handler = new Handler();
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
    downloadClick();  
}
```

```
private void downloadClick() {  
    imageView = findViewById(R.id.download);  
    imageView.setOnClickListener(new View.OnClickListener() {  
        @Override  
        public void onClick(View v) {
```

```
            progressBar = new ProgressDialog(v.getContext());  
            progressBar.setCancelable(true);  
            progressBar.setTitle("Download");  
            progressBar.setIcon(R.drawable.download);  
            progressBar.setMessage("\nFile downloading ...");  
            progressBar.setProgressStyle(ProgressDialog.STYLE_HORIZONTAL);  
            progressBar.setProgress(0);  
            progressBar.setMax(100);
```

```
            progressBar.show();  
            // Start long running operation in a background thread  
            new Thread(new Runnable() {  
                public void run() {  
                    while (progressStatus < 100) {
```

```

        progressStatus += 1;
        // Update the progress bar and display the
        //current value in the text view
        handler.post(new Runnable() {
            public void run() {
                progressBar.setProgress(progressStatus);
                if (progressStatus == 100){
                    Toast.makeText(getApplicationContext(),"Download
Complete.",Toast.LENGTH_SHORT).show();
                }
            }
        });

        try {
            // Sleep for 200 milliseconds.
            Thread.sleep(200);
        } catch (InterruptedException e) {
            e.printStackTrace();
        }
    }
}
}).start();

progressStatus = 0;
}
});
}
}

```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="robert.karamagi.progressbar">
    <application
        android:allowBackup="true"
        android:icon="@drawable/robert"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="colorPrimary">#0720ac</color>
    <color name="colorPrimaryDark">#001596</color>
    <color name="colorAccent">#0321a4</color>
</resources>
```



3G



55%

15:22

Progress Bar

Download





55% 15:22

Progress Bar



Download

File downloading ...





Progress Bar



Download

File downloading ...



Download Complete.