

# Instituto Politécnico Nacional ESCOM



"Escuela Superior de Cómputo"

Application Development for Mobile Devices

16/02/2022

Tarea 3

Button

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Sigfrido

Grupo: 3CM16

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### Ejemplo 1.

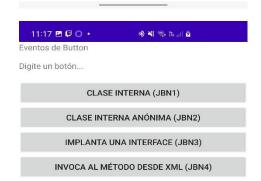
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent" >
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
    <Button
        android:id="@+id/xbn1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
    <Button
        android:id="@+id/xbn2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
    <Button
        android:id="@+id/xbn3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
    <Button
        android:id="@+id/xbn4"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
</LinearLayout>
```

```
package com.example.myapplication;
import android.app.Activity;
import android.os.Bundle;
import android.view.View.OnClickListener; // -1
import android.widget.*;
public class MainActivity extends Activity implements OnClickListener{ // -2
    public void onCreate(Bundle b) {
        super.onCreate(b);
       setContentView(R.layout.activity_main);
       jbn1 = (Button) findViewById(R.id.xbn1); // MÉTODO 1
        jbn1.setOnClickListener(bn1Listener); // -3
        jbn2.setOnClickListener(new OnClickListener() {
            public void onClick(View v) {
        jbn3.setOnClickListener(this);
    private OnClickListener bn1Listener = new OnClickListener() { // desde el MÉTODO 1
       public void onClick(View v) {
            showToastMessage( msg: "Botón digitado: xbn1\nUtiliza: clase btn1Listener");
        showToastMessage( msg: "Botón digitado: xbn3\nUtiliza: implements OnClickListener.");
    public void xbn4DesdeXML(View v) { // MÉTODO 4
    private void showToastMessage(String msg){
H
```





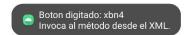






Botón digitado: xbn2 Utiliza: new OnClickListener{}

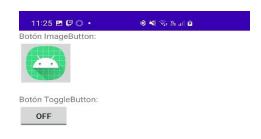


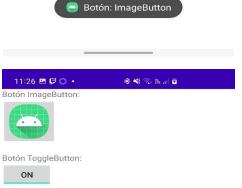


### Ejemplo 2.

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
    <ImageButton
        android:id="@+id/xib1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@mipmap/ic_launcher" />
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
    <ToggleButton
        android:id="@+id/xtb1"
        android:text0n="ON"
        android:textOff="OFF"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />
</LinearLayout>
```

```
activity_main.xml × 💿 MainActivity.java × 🚜 strings.xml
      package com.example.myapplication;
      import android.app.Activity;
      import android.os.Bundle;
      import android.view.View;
      import android.view.View.OnClickListener; // 1
      import android.widget.*;
          ImageButton jib1;
          ToggleButton jtb1;
          public void onCreate(Bundle b) {
              super.onCreate(b);
              jtb1 = (ToggleButton)findViewById(R.id.xtb1); jtb1.setOnClickListener(this);
of @
              if(v.getId()==R.id.xib1) // 5
                  if (jtb1.isChecked()) showToastMessage( s: "Botón: ToggleButton en ON");
          private void showToastMessage(String s){
```





### Ejercicio 1.

```
🚜 activity_main.xml 🗡 🌀 MainActivity.java 🗡 🚜 strings.xml 🗦
       package com.example.myapplication;
       import android.media.MediaPlayer;
       import android.os.Bundle;
       import android.app.Activity;
       import android.view.View;
       import android.view.View.OnClickListener;
       import android.widget.*;
       public class MainActivity extends Activity {
           MediaPlayer mp;
          Button btn;
           public void onCreate(Bundle b) {
               super.onCreate(b);
               setContentView(R.layout.activity_main);
               btn= (Button) findViewById(R.id.btnSonido);
               mp = MediaPlayer.create( context: MainActivity.this, R.raw.clic);
               btn.setOnClickListener(new OnClickListener() {
                   public void onClick(View v) {
                       mp.start();
           public void onDestroy(){
               mp.stop();
               super.onDestroy();
```

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

</pr
```

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#### Ejercicio 2.

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout</pre>
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <com.google.android.material.floatingactionbutton.FloatingActionButton</pre>
        android:id="@+id/xfab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|end"
        android:layout_marginRight="64dp"
        android:layout_marginEnd="64dp"
        android:layout_marginBottom="131dp"
        android:layout_alignParentBottom="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentEnd="true" />
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
</RelativeLayout>
```



Programación gráfica de botones.

```
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My Application
```

