



Unidad Profesional Interdisciplinaria en Ingeniería y  
Tecnologías Avanzadas

DISPOSITIVOS MÓVILES

---

## Práctica 10

---

Grupo: 2TM19

Gallegos Ruiz Diana Abigail

# 1 XML

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http:
  //schemas.android.com/apk/res/android"
3 xmlns:app="http://schemas.android.com/apk/res-auto"
4 xmlns:tools="http://schemas.android.com/tools"
5 android:layout_width="match_parent"
6 android:layout_height="match_parent"
7 tools:context=".MainActivity">
8
9 <TextView
10 android:layout_width="wrap_content"
11 android:layout_height="wrap_content"
12 android:text="Hello World!"
13 app:layout_constraintBottom_toBottomOf="parent"
14 app:layout_constraintEnd_toEndOf="parent"
15 app:layout_constraintStart_toStartOf="parent"
16 app:layout_constraintTop_toTopOf="parent" />
17
18 </androidx.constraintlayout.widget.ConstraintLayout>
```

# 2 JAVA

```
1 package com.example.practica10;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5
6 import android.content.Context;
7 import android.graphics.Canvas;
8 import android.graphics.Color;
9 import android.graphics.Paint;
10 import android.graphics.Path;
11 import android.graphics.RectF;
12 import android.os.Bundle;
13 import android.view.View;
14
15 public class MainActivity extends AppCompatActivity {
16
17     int colors [] = {Color.rgb(240,238,232),Color.rgb(171,225,136),Color.
18         rgb(247,239,153) ,Color.rgb(241,187,135),Color.rgb(247,142,105) ,Color.
19         rgb(93,103,91) };
20
21
22 }
```

```
23     @Override
24     protected void onCreate(Bundle savedInstanceState) {
25         super.onCreate(savedInstanceState);
26         setContentView(R.layout.activity_main);
27         Vistagraficos graficas = new Vistagraficos(this);
28         setContentView(graficas);
29
30     }
31
32     public class Vistagraficos extends View{
33         public Vistagraficos(Context context) {
34             super(context);
35         }
36
37
38
39         @Override protected void onDraw(Canvas canvas) {
40             super.onDraw(canvas);
41             Paint pintura = new Paint();
42             pintura.setColor(colors[0]);
43             canvas.drawPaint(pintura);
44
45
46             int ancho, alto;
47             ancho = canvas.getWidth();
48             alto = canvas.getHeight();
49
50             int ex = 50;
51             pintura.setStrokeWidth(ex);
52             //Lineas
53             for (int color : colors) {
54                 pintura.setColor(color);
55                 canvas.drawLine(ex - 30, 0, ex, (float) alto, pintura);
56                 ex += 50;
57             }
58
59
60             //Rectangulo
61             pintura.setColor(colors[1]);
62             canvas.save();
63             canvas.rotate(-30);
64             RectF rectangulo = new RectF(300, 150, 800, 550);
65             canvas.drawRect(rectangulo, pintura);
66             canvas.restore();
67
68             //C rculo
69             pintura.setColor(colors[3]);
70             canvas.drawCircle(700, 535, 200, pintura);
71
72             //Trayectoria
73             pintura.setTextSize(40);
```

```
74     Path trazo = new Path();
75     trazo.addCircle(ancho/2, alto/2 + 300, 300, Path.Direction.CCW);//
76     CCW en contra de las manecillas
77     pintura.setColor(colors[5]);
78     canvas.drawTextOnPath("Pr ctica 10 Canvas Pr ctica 10 Canvas
79     Pr ctica 10 Canvas Pr ctica 10 Canvas", trazo, 0,0, pintura);
80
81 }
82 }
83 }
84
85
```

### 3 Resultados

