

PROYECTO FINAL - SENSORES

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Sensor de Giroscopio

Modificación en Colors.xml

Dentro del código del archivo de Colors.xml se añadieron las siguientes líneas de comando para indicar los colores a utilizar.

Código de MainActivity.java

```
package com.example.giroscopio;
    import androidx.appcompat.app.AppCompatActivity;

import android.media.AudioManager;
import android.media.MediaPlayer;
import android.media.SoundPool;
import android.content.pm.ActivityInfo;
import android.hardware.Sensor;
import android.hardware.SensorEvent;
import android.hardware.SensorEventListener;
import android.hardware.SensorManager;
import android.content.Context;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    TextView textX, textY, textZ;
    SensorManager sensorManager;
    Sensor sensor;
    SoundPool sp;
int sonido;
```

```
protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
getSystemService(Context.SENSOR SERVICE);
    public void onResume() {
        super.onResume();
        sensorManager.registerListener(gyroListener, sensor,
    public void onStop() {
    public SensorEventListener gyroListener = new SensorEventListener() {
        public void onAccuracyChanged(Sensor sensor, int acc) {
        public void onSensorChanged(SensorEvent event) {
getWindow().getDecorView().setBackgroundColor(getResources().getColor(R.color
```

```
textX.setText("X : " + (int) x + " rad/s");
    textY.setText("Y : " + (int) y + " rad/s");
    textZ.setText("Z : " + (int) z + " rad/s");
};
};
```

Código de activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
       app:layout constraintTop toTopOf="parent"
       app:layout constraintVertical bias="0.152"
   <TextView
```

```
android:layout_height="159dp"
android:layout_height="63dp"
android:text=""
android:textColor="#131212"
android:textSize="20sp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.619"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.514"
tools:ignore="MissingConstraints" />

android:id="@+id/textZ"
android:layout_height="66dp"
android:textE""
android:textEolor="#131212"
android:textSize="20sp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintBottom_toEndOf="parent"
app:layout_constraintBottom_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.723"
tools:ignore="MissingConstraintLayout>

/androidx.constraintlayout.widget.ConstraintLayout>
```