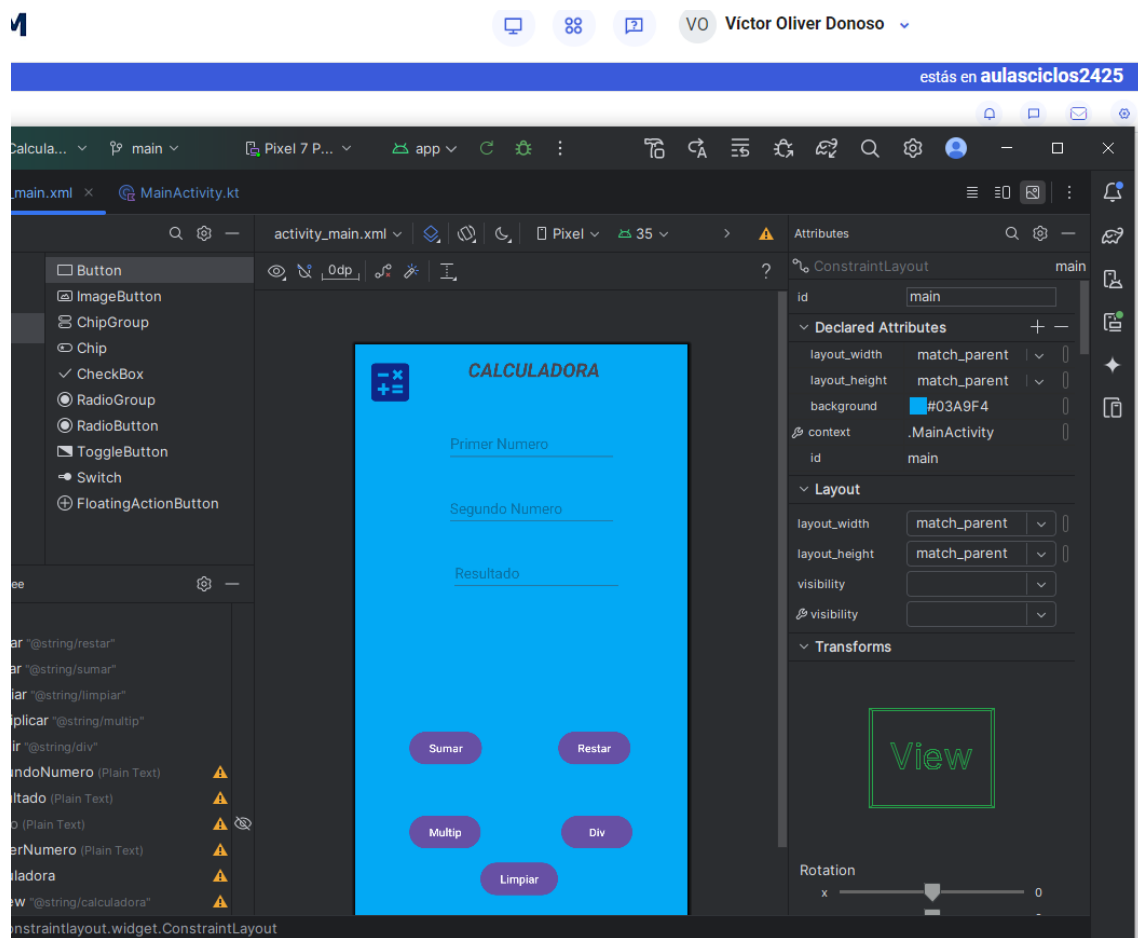
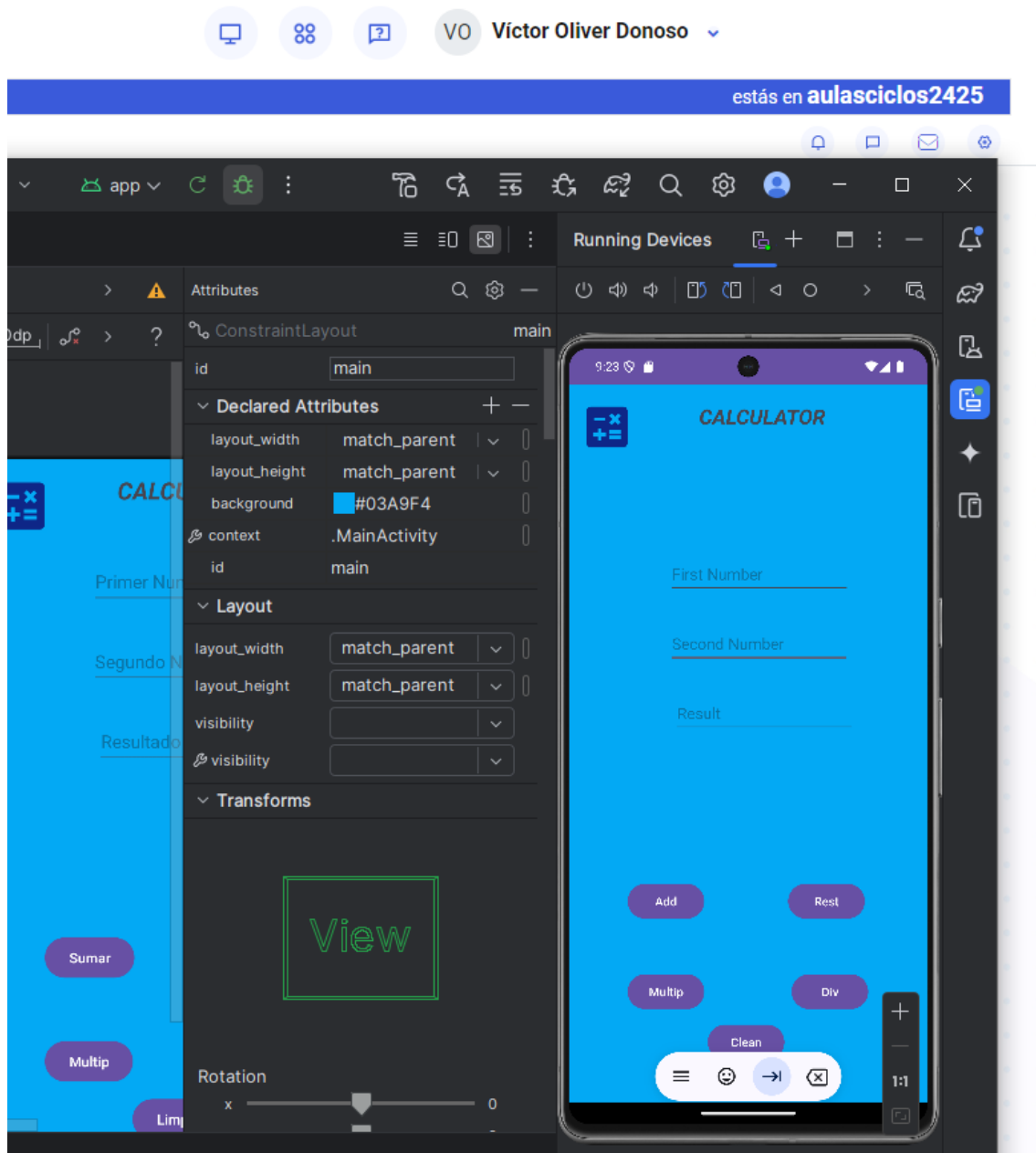


Calculadora



Parte Visual



Aquí funcionando

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class MainActivity : AppCompatActivity() {
    lateinit var binding: ActivityMainBinding

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)

        // Sumar
        binding.btSumar.setOnClickListener {
            if (validarCampos()) {
                val num1 = binding.etPrimerNumero.text.toString().toInt()
                val num2 = binding.etSegundoNumero.text.toString().toInt()
                val resultado = num1 + num2
                binding.etResultado.setText(resultado.toString())
                ocultarResto()
            }
        }

        // Restar
        binding.btRestar.setOnClickListener {
            if (validarCampos()) {
                val num1 = binding.etPrimerNumero.text.toString().toInt()
                val num2 = binding.etSegundoNumero.text.toString().toInt()
                val resultado = num1 - num2
                binding.etResultado.setText(resultado.toString())
                ocultarResto()
            }
        }
    }
}
```

```
activity_main.xml MainActivity.kt

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        // Multiplicar
        binding.btMultiplicar.setOnClickListener {
            if (validarCampos()) {
                val num1 = binding.etPrimerNumero.text.toString().toInt()
                val num2 = binding.etSegundoNumero.text.toString().toInt()
                val resultado = num1 * num2
                binding.etResultado.setText(resultado.toString())
                ocultarResto()
            }
        }

        // Dividir
        binding.btDividir.setOnClickListener {
            if (validarCampos()) {
                val num1 = binding.etPrimerNumero.text.toString().toInt()
                val num2 = binding.etSegundoNumero.text.toString().toInt()

                if (num2 != 0) {
                    val resultado = num1 / num2
                    val resto = num1 % num2
                    binding.etResultado.setText(resultado.toString())

                    if (resto != 0) {
                        // Mostrar el resto solo si es diferente de 0
                        binding.etResto.setText(resto.toString())
                        binding.etResto.visibility = android.view.View.VISIBLE
                    }
                }
            }
        }
    }
}
```

```
activity_main.xml MainActivity.kt

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        binding.btDividir.setOnClickListener {
            } else {
                ocultarResto()
            }
        } else {
            Toast.makeText(context, this, text: "El segundo número no puede ser 0 al dividir", Toast.LENGTH_SHORT).show()
        }
    }

    binding.btLimpiar.setOnClickListener {
        binding.etPrimerNumero.setText("")
        binding.etSegundoNumero.setText("")
        binding.etResultado.setText("")
        ocultarResto()
    }
}

private fun validarCampos(): Boolean {
    val num1 = binding.etPrimerNumero.text.toString()
    val num2 = binding.etSegundoNumero.text.toString()

    if (TextUtils.isEmpty(num1) || TextUtils.isEmpty(num2)) {
        Toast.makeText(context, this, text: "Los campos no pueden estar vacíos", Toast.LENGTH_SHORT).show()
        return false
    }
}
```

VO Víctor Oliver Donoso

estás en aulasciclos242

```
xml MainActivity.kt
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
    }

    private fun validarCampos(): Boolean {
        val num1 = binding.etPrimerNumero.text.toString()
        val num2 = binding.etSegundoNumero.text.toString()

        if (TextUtils.isEmpty(num1) || TextUtils.isEmpty(num2)) {
            Toast.makeText(context, this, text: "Los campos no pueden estar vacíos", Toast.LENGTH_SHORT).show()
            return false
        }
        return true
    }

    // Ocultar el campo del resto
    private fun ocultarResto() {
        binding.etResto.setText("") // Limpia el contenido del campo resto
        binding.etResto.visibility = android.view.View.INVISIBLE // Lo hace invisible
    }
}
```

El main

```
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:id="@+id/main"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     android:background="#03A9F4"
9     tools:context=".MainActivity">
10
11     <Button
12         android:id="@+id/btRestar"
13         android:layout_width="wrap_content"
14         android:layout_height="wrap_content"
15         android:layout_marginTop="84dp"
16         android:text="Restar"
17         app:layout_constraintBottom_toTopOf="@+id/btDividir"
18         app:layout_constraintEnd_toEndOf="parent"
19         app:layout_constraintHorizontal_bias="0.573"
20         app:layout_constraintStart_toEndOf="@+id/btSumar"
21         app:layout_constraintTop_toBottomOf="@+id/etResto"
22         app:layout_constraintVertical_bias="0.0" />
```

```
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
23
24     <Button
25         android:id="@+id/btSumar"
26         android:layout_width="wrap_content"
27         android:layout_height="wrap_content"
28         android:layout_marginBottom="56dp"
29         android:text="Sumar"
30         app:layout_constraintBottom_toTopOf="@+id/btMultiplicar"
31         app:layout_constraintEnd_toEndOf="parent"
32         app:layout_constraintHorizontal_bias="0.208"
33         app:layout_constraintStart_toStartOf="parent"
34         app:layout_constraintTop_toTopOf="parent"
35         app:layout_constraintVertical_bias="1.0" />
36
37     <Button
38         android:id="@+id/btLimpiar"
39         android:layout_width="wrap_content"
40         android:layout_height="wrap_content"
41         android:text="Limpiar"
42         app:layout_constraintBottom_toBottomOf="parent"
43         app:layout_constraintEnd_toEndOf="parent"
44         app:layout_constraintHorizontal_bias="0.492"
45         app:layout_constraintStart_toStartOf="parent"
46         app:layout_constraintTop_toBottomOf="@+id/etResto"
47         app:layout_constraintVertical_bias="0.842" />
```

```
activity_main.xml x MainActivity.kt
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    app:layout_constraintVertical_bias="0.842" />

    <Button
        android:id="@+id/btMultiplicar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="104dp"
        android:text="Multip"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toStartOf="@+id/btDividir"
        app:layout_constraintHorizontal_bias="0.401"
        app:layout_constraintStart_toStartOf="parent" />

    <Button
        android:id="@+id/btDividir"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="68dp"
        android:layout_marginBottom="104dp"
        android:text="Div"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />
```

```
activity_main.xml x MainActivity.kt
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    app:layout_constraintVertical_bias="0.842" />

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="32dp"
        android:ems="10"
        android:inputType="text"
        android:minHeight="48dp"
        android:hint="Segundo Numero"
        app:layout_constraintBottom_toTopOf="@+id/etResultado"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.562"
        app:layout_constraintStart_toStartOf="parent" />

    <EditText
        android:id="@+id/etResultado"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="36dp"
        android:ems="10"
        android:inputType="text"
        android:minHeight="48dp"
        android:hint="Resultado"
        app:layout_constraintBottom_toTopOf="@+id/etResto"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.592"
        app:layout_constraintStart_toStartOf="parent" />
```

```

198 <EditText
199     android:id="@+id/etResto"
200     android:layout_width="wrap_content"
201     android:layout_height="wrap_content"
202     android:layout_marginBottom="340dp"
203     android:ems="10"
204     android:inputType="text"
205     android:minHeight="48dp"
206     android:hint="Resto"
207     android:visibility="invisible"
208     app:layout_constraintBottom_toBottomOf="parent"
209     app:layout_constraintEnd_toEndOf="parent"
210     app:layout_constraintHorizontal_bias="0.567"
211     app:layout_constraintStart_toStartOf="parent" />
212
213 <EditText
214     android:id="@+id/etPrimerNumero"
215     android:layout_width="209dp"
216     android:layout_height="48dp"
217     android:layout_marginBottom="32dp"
218     android:ems="10"
219     android:inputType="text"
220     android:hint="Primer Numero"
221     app:layout_constraintBottom_toTopOf="@+id/etSegundoNumero"
222     app:layout_constraintEnd_toEndOf="parent"
223     app:layout_constraintHorizontal_bias="0.564"
224     app:layout_constraintStart_toStartOf="parent" />
225

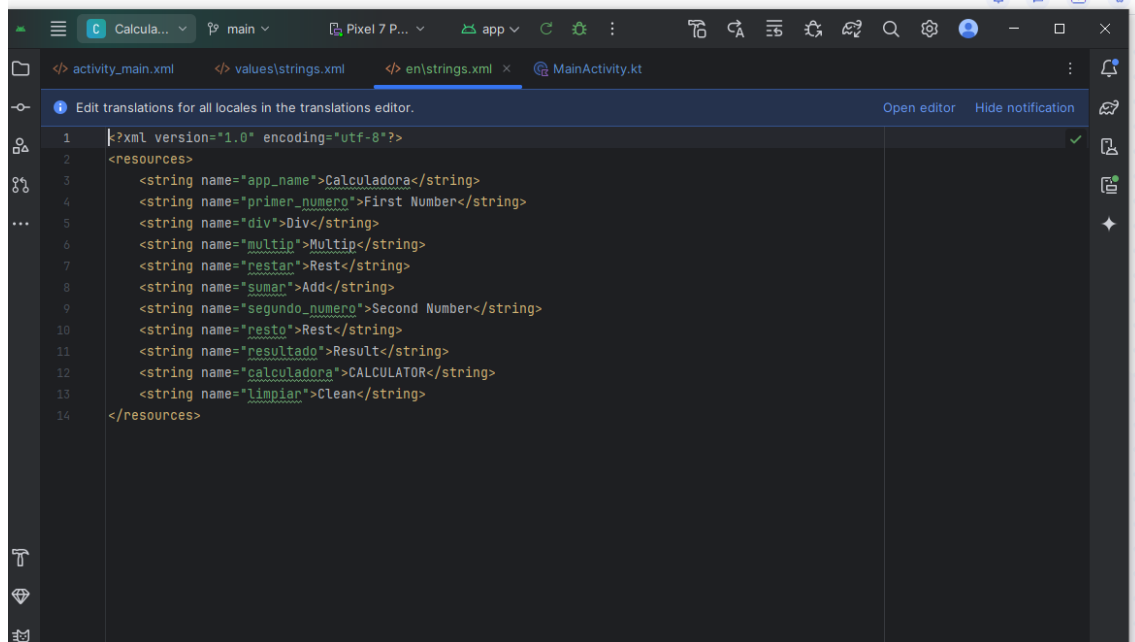
```

```

125
126 <ImageButton
127     android:id="@+id/IbCalculadora"
128     android:layout_width="60dp"
129     android:layout_height="63dp"
130     android:backgroundTint="#03A9F4"
131     app:layout_constraintBottom_toBottomOf="parent"
132     app:layout_constraintEnd_toStartOf="@+id/textView"
133     app:layout_constraintHorizontal_bias="0.228"
134     app:layout_constraintStart_toStartOf="parent"
135     app:layout_constraintTop_toTopOf="parent"
136     app:layout_constraintVertical_bias="0.023"
137     app:srcCompat="@drawable/ic_launcher_calculator"
138     tools:ignore="SpeakableTextPresentCheck" />
139
140 <TextView
141     android:id="@+id/textView"
142     android:layout_width="204dp"
143     android:layout_height="44dp"
144     android:layout_marginTop="12dp"
145     android:layout_marginEnd="88dp"
146     android:text="CALCULADORA"
147     android:textAlignment="center"
148     android:textSize="24sp"
149     android:textStyle="bold|italic"
150     app:layout_constraintBottom_toTopOf="@+id/etPrimerNumero"
151     app:layout_constraintEnd_toEndOf="parent"
152     app:layout_constraintTop_toTopOf="parent"
153     app:layout_constraintVertical_bias="0.067" />
154

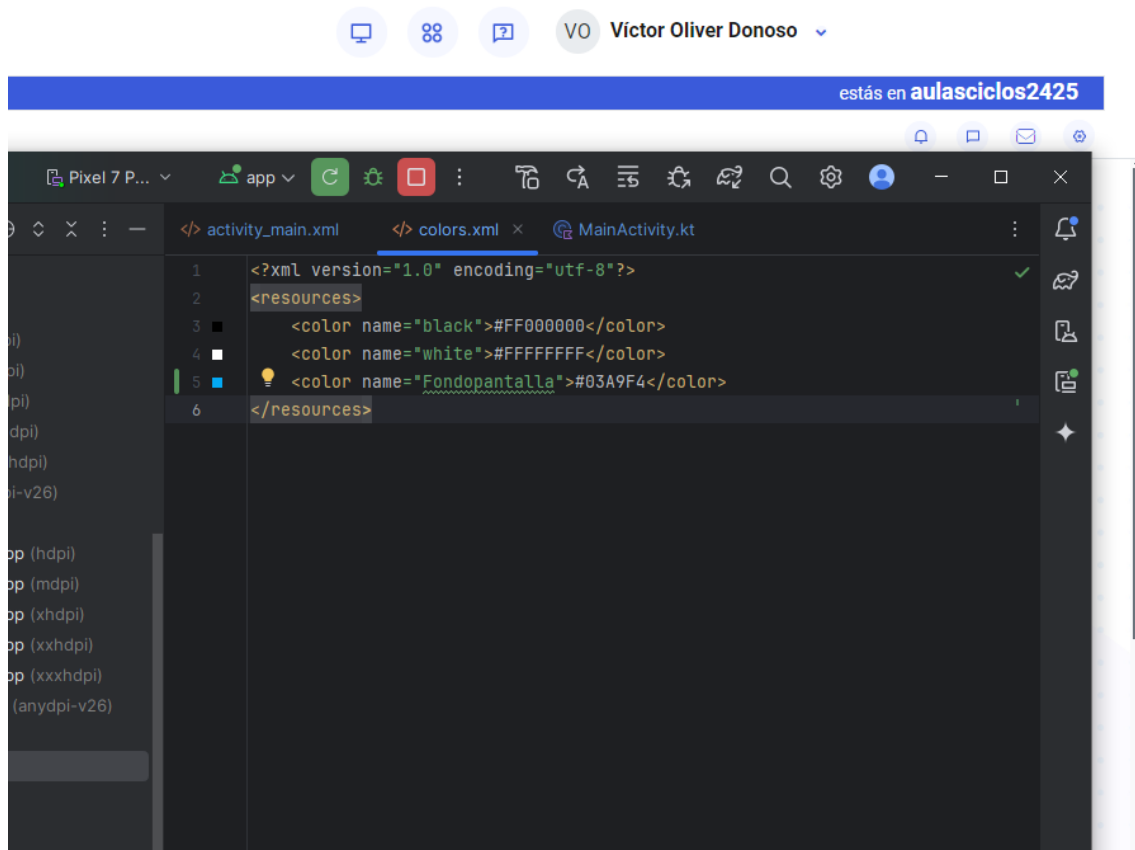
```

El activity_main



```
1 <?xml version="1.0" encoding="utf-8"?>
2 <resources>
3     <string name="app_name">Calculadora</string>
4     <string name="primer_numero">First Number</string>
5     <string name="div">Div</string>
6     <string name="multip">Multi</string>
7     <string name="restar">Rest</string>
8     <string name="sumar">Add</string>
9     <string name="segundo_numero">Second Number</string>
10    <string name="resto">Rest</string>
11    <string name="resultado">Result</string>
12    <string name="calculadora">CALCULATOR</string>
13    <string name="limpiar">Clean</string>
14 </resources>
```

Traducciones



colores