



Unidad Profesional Interdisciplinaria en Ingeniería y  
Tecnologías Avanzadas

DISPOSITIVOS MÓVILES

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## Práctica 17

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Grupo: 2TM19

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# 1 XML

## 1.1 Rotacin

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <rotate xmlns:android="http://schemas.android.com/apk/res/android"
3   android:toDegrees="0"
4   android:fromDegrees="360"
5   android:pivotX="0%"
6   android:pivotY="0%"
7   android:duration="2000">
8 </rotate>
```

## 1.2 Escalamiento

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <scale xmlns:android="http://schemas.android.com/apk/res/android"
3   android:interpolator = "@android:interpolator/linear"
4   android:fromXScale="1.0"
5   android:toXScale="2.0"
6   android:fromYScale="1.0"
7   android:toYScale="2.0"
8   android:pivotX="50%"
9   android:pivotY="50%"
10  android:duration="2000"
11  >
12
13 </scale>
14
```

## 1.3 Transparencia

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <alpha xmlns:android="http://schemas.android.com/apk/res/android"
3   android:interpolator = "@android:interpolator/linear"
4   android:fromAlpha="1.0"
5   android:toAlpha="0.0"
6   android:duration="2000"
7   >
8 </alpha>
```

## 1.4 Traslacin

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <translate xmlns:android="http://schemas.android.com/apk/res/android"
3   android:interpolator = "@android:interpolator/linear"
```

```
4  android:fromXDelta="-10%p"
5  android:toXDelta="80%p"
6  android:fromYDelta="0%p"
7  android:toYDelta="50%p"
8  android:duration = "2000">
9
10 </translate>
```

## 1.5 Combinacin

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <set xmlns:android="http://schemas.android.com/apk/res/android"
3  android:shareInterpolator="true">
4
5  <alpha
6  android:fromAlpha="0.0"
7  android:toAlpha="1.0"
8  android:duration="3000"
9  android:startOffset="1"/>
10
11 <translate
12 android:interpolator="@android:interpolator/linear"
13 android:fromXDelta="-10%p"
14 android:toXDelta="20%p"
15 android:fromYDelta="0%p"
16 android:toYDelta="20%p"
17 android:duration="3000"
18 android:startOffset="3000"/>
19
20 <rotate
21 android:toDegrees="0"
22 android:fromDegrees="360"
23 android:pivotX="50%"
24 android:pivotY="50%"
25 android:duration="3000"
26 android:startOffset="6000"/>
27
28 <scale
29 android:fromXScale="1.0"
30 android:toXScale="2.0"
31 android:fromYScale="1.0"
32 android:toYScale="2.0"
33 android:pivotX="50%"
34 android:pivotY="50%"
35 android:duration="3000"/>
36
37 </set>
```

## 1.6 Activity Main

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout 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   android:background="@color/cardview_dark_background"
9   android:padding="90dp"
10  android:orientation="vertical">
11
12  <TextView
13    android:id="@+id/txt1"
14    android:gravity="center"
15    android:layout_width="match_parent"
16    android:layout_height="wrap_content"
17    android:text="Traslaci n"
18    android:textSize="12pt"
19    android:textColor="@color/white"/>
20  <TextView
21    android:layout_marginTop="90dp"
22    android:id="@+id/txt2"
23    android:gravity="center"
24    android:layout_width="match_parent"
25    android:layout_height="wrap_content"
26    android:text="Rotaci n"
27    android:textSize="12pt"
28    android:textColor="@color/white"/>
29  <TextView
30    android:layout_marginTop="90dp"
31    android:id="@+id/txt3"
32    android:gravity="center"
33    android:layout_width="match_parent"
34    android:layout_height="wrap_content"
35    android:text="Transparencia"
36    android:textSize="12pt"
37    android:textColor="@color/white"/>
38  <TextView
39    android:layout_marginTop="90dp"
40    android:id="@+id/txt4"
41    android:gravity="center"
42    android:layout_width="match_parent"
43    android:layout_height="wrap_content"
44    android:text="Escalamiento"
45    android:textSize="12pt"
46    android:textColor="@color/white"/>
47  <TextView
48    android:layout_marginTop="40dp"
49    android:id="@+id/txt5"
```

```
50 android:gravity="center"
51 android:layout_width="match_parent"
52 android:layout_height="wrap_content"
53 android:text="Combinaci n"
54 android:textSize="12pt"
55 android:textColor="@color/white"/>
56
57
58 </LinearLayout>
```

## 2 JAVA

```
1 package com.example.animacionxml;
2
3
4 import androidx.appcompat.app.AppCompatActivity;
5
6 import android.os.Bundle;
7 import android.view.animation.Animation;
8 import android.view.animation.AnimationSet;
9 import android.view.animation.AnimationUtils;
10 import android.view.animation.BounceInterpolator;
11 import android.widget.TextView;
12
13 public class MainActivity extends AppCompatActivity {
14     TextView textos [];
15     Animation animaciones [];
16     AnimationSet as;
17     int i=0;
18
19     @Override
20     protected void onCreate(Bundle savedInstanceState) {
21         super.onCreate(savedInstanceState);
22         setContentView(R.layout.activity_main);
23
24         textos = new TextView[5];
25         textos[0]= (TextView) findViewById( R.id.txt1);
26         textos[1]= (TextView) findViewById( R.id.txt2);
27         textos[2]= (TextView) findViewById( R.id.txt3);
28         textos[3]= (TextView) findViewById( R.id.txt4);
29         textos[4]= (TextView) findViewById( R.id.txt5);
30
31         animaciones = new Animation[5];
32         animaciones[0] = AnimationUtils.loadAnimation(this,R.anim.traslacion);
33         animaciones[1] = AnimationUtils.loadAnimation(this,R.anim.rotacion);
34         animaciones[2] = AnimationUtils.loadAnimation(this,R.anim.
35         transparencia);
36         animaciones[3] = AnimationUtils.loadAnimation(this,R.anim.escalamiento
37         );
38     }
39 }
```

```
36 // Secuencia de animaciones
37 animaciones[4]= AnimationUtils.loadAnimation(this,R.anim.animaciones);
38
39 for( Animation animacion : animaciones){
40     animacion.setFillAfter(true);
41     animacion.setRepeatMode(Animation.REVERSE);
42     animacion.setRepeatCount(6);
43     textos[i].startAnimation(animacion);
44     i++;
45 }
46 }
47
48
49 }
```

### 3 Resultados

Se anexa video

