```
/**

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* */
```

#### APLICATIVO JOGO DA PALAVRA

#### Código res\values\styles.xml

#### Código res\values\colors.xml

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

```
<resources>
  <color name="colorPrimary">#008577</color>
  <color name="colorPrimaryDark">#474946</color>
  <color name="colorAccent">#D81B60</color>
 <color name="colorPurple">#AB47BC</color>
  <color name="colorDarkPurple">#641570</color>
  <color name="colorThinMagenta">#F196BA</color>
  <color name="colorRed">#FF0000</color>
  <color name="colorDarkRed">#7E0A0A</color>
  <color name="colorGradientStart">#474946</color>
  <color name="colorGradientCenter">#AB47BC</color>
  <color name="colorGradientEnd">#181818</color>
</resources>
Código res\anim\smalltobig.xml
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
 android:interpolator="@android:anim/accelerate_interpolator"
 android:startOffset="300"
 >
  <scale
   android:fromYScale="0.0"
   android:fromXScale="0.0"
   android:toYScale="1.0"
   android:toXScale="1.0"
   android:duration="400"
```

```
android:pivotY="50%"
android:pivotX="50%"
/>
</set>
```

## Arquivo de imagem res\drawable\marcos.png



## Código res\drawable\toast\background\_image.xml

```
android:type="linear"
     />
     <size android:width="123dp"
        android:height="41dp"/>
      <stroke android:dashGap="2dp"
        android:dashWidth="2dp"
       android:width="2dp"
       android:color="#FFFFFF"/>
   </shape>
  </item>
  <item android:drawable="@drawable/marcos"
   android:width="32dp"
   android:height="32dp"
   android:left="2dp"
   android:gravity="center_vertical">
  </item>
</layer-list>
Código arquivo res\drawable\back.xml
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"</p>
 android:shape="rectangle">
```

```
<solid android:color="@android:color/white"/>
 <stroke android:width="2dp"
   android:color="@color/colorThinMagenta"/>
 <corners android:radius="8dp"/>
 <size android:width="61dp"
   android:height="68dp"/>
</shape>
Código arquivo res\drawable\bgapp.xml
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"
 android:shape="rectangle">
  <solid android:color="@android:color/white"/>
 <stroke android:width="2dp"
   android:color="@color/colorThinMagenta"/>
 <corners android:radius="8dp"/>
  <size android:width="61dp"
   android:height="68dp"/>
</shape>
```

#### Código arquivo res\layout\activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
 xmlns:tools="http://schemas.android.com/tools"
 android:id="@+id/coordinatorLayout"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:background="@drawable/bgapp">
  <ScrollView
   android:layout_width="match_parent"
   android:layout_height="match_parent">
   <LinearLayout
      android:layout_width="match_parent"
     android:layout_height="wrap_content"
      android:orientation="vertical" >
      <TextView
        android:id="@+id/textViewScreen"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="30dp"
        android:text="Vamos Começar!"
        android:textColor="#FFF"
        android:textSize="22sp"/>
```

```
<LinearLayout
 android:layout_width="290dp"
 android:layout_height="150dp"
 android:layout gravity="center"
 android:layout_marginTop="20dp"
 android:background="@drawable/bgquestion"
 android:orientation="vertical">
 <TextView
   android:id="@+id/textViewQuestion"
   android:layout_width="200dp"
   android:layout_height="wrap_content"
   android:layout_gravity="center"
   android:layout_marginTop="24dp"
   android:lineSpacingExtra="2dp"
   android:text="Palavra representa uma fruta em português"
   android:textAlignment="center"
   android:textColor="#AB47BC"
   android:textSize="22sp"/>
</LinearLayout>
<EditText
 android:id="@+id/editTextInput"
 android:layout_width="290dp"
 android:layout_height="80dp"
 android:layout_gravity="center"
 android:layout_marginTop="30dp"
 android:layout_marginBottom="10dp"
```

```
android:background="@drawable/bgpurple"
 android:clickable="false"
 android:focusable="false"
 android:gravity="center"
 android:padding="10dp"
 android:textColor="#AB47BC"
 android:textSize="32sp"/>
<TextView
 android:text="Letras"
 android:textSize="24dp"
 android:textColor="#FFF"
 android:id="@+id/textViewTitle"
 android:layout_marginRight="28dp"
 android:layout_marginLeft="28dp"
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:layout_marginBottom="16dp"/>
<LinearLayout
 android:id="@+id/layoutParentLine1"
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:layout_marginLeft="24dp"
 android:layout_marginRight="24dp"
 android:layout_marginBottom="16dp"
 android:orientation="horizontal"/>
```

<LinearLayout

```
android:id="@+id/layoutParentLine2"
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="24dp"
        android:layout marginRight="24dp"
        android:layout_marginBottom="16dp"
        android:orientation="horizontal"/>
      <LinearLayout
        android:id="@+id/layoutParentLine3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="24dp"
        android:layout_marginRight="24dp"
        android:layout_marginBottom="16dp"
        android:orientation="horizontal" />
   </LinearLayout>
  </ScrollView>
</androidx.constraintlayout.widget.ConstraintLayout>
Código arquivo res\layout\activity_show_correct.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
 xmlns:android="http://schemas.android.com/apk/res/android"
 xmlns:app="http://schemas.android.com/apk/res-auto"
```

```
xmlns:tools="http://schemas.android.com/tools"
android:layout width="match parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:background="@drawable/bgapp"
tools:context=".MainActivity">
<TextView
  android:id="@+id/textScreen"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_gravity="center"
  android:layout_marginTop="40dp"
  android:text="Ponto de Verificação"
  android:textColor="#FFF"
  android:textSize="22sp"/>
<ImageView
  android:id="@+id/bigboss"
  android:layout_width="180dp"
  android:layout_height="180dp"
  android:layout_gravity="center"
  android:layout_marginTop="30dp"
  android:src="@drawable/marcos"/>
<TextView
  android:id="@+id/textQuestion"
  android:layout_width="230dp"
```

```
android:layout_height="wrap_content"
 android:layout gravity="center"
 android:layout_marginTop="20dp"
 android:text="Aí sim! Parabéns! Vamos para a próxima?"
 android:textAlignment="center"
 android:textColor="#FFF"
 android:textSize="28sp"/>
<Button
 android:id="@+id/textTitle"
 android:layout width="280dp"
 android:layout_height="70dp"
 android:layout gravity="center"
 android:layout_marginTop="40dp"
 android:background="@drawable/bgbtn"
 android:paddingBottom="10dp"
 android:text="Continuar"
 android:textAllCaps="false"
 android:textColor="@color/colorPurple"
 android:textSize="28sp"/>
<TextView
 android:id="@+id/textBtn"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_gravity="center"
 android:layout_marginTop="30dp"
 android:text="Voltar ao Início"
 android:textColor="#AD87FF"
 android:textSize="22sp"/>
```

</LinearLayout>

# Código arquivo MainActivity.java package com.example.jogodapalavra; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.os.Bundle; import android.view.Gravity; import android.view.View; import android.widget.EditText; import android.widget.LinearLayout; import android.widget.TextView; import android.widget.Toast; import org.w3c.dom.Text; import java.util.ArrayList; import java.util.Random; public class MainActivity extends AppCompatActivity { private LinearLayout mLinearLayoutLine1, mLinearLayoutLine2, mLinearLayoutLine3; private EditText mEditTextInput; private TextView mTextViewScreen, mTextViewQuestion, mTextViewTitle; private Random rnd = new Random();

```
private int pressCounter = 0;
private int maxPresCounter = 0;
private int lengthKeysEmpty = 0;
private String[] keys;
ArrayList<String> mStringArrayList = new ArrayList<String>();
private String textAnswer = "PITANGATUBA"; // uva laranja
private void adicionarLetraExtra(){
  String[] listaLetras = {"X", "Y", "Z", "W", "K", "B", "G", "E" };
  int posicao = rnd.nextInt( listaLetras.length + 1 );
  mStringArrayList.add(listaLetras[posicao]);
}
private void adicionarEspacosVazios(String textAnswer){
  lengthKeysEmpty=0;
  if( textAnswer.length() < 5 ){</pre>
    lengthKeysEmpty = 5 - textAnswer.length() -1;
  } else if( textAnswer.length() < 10 ) {</pre>
    lengthKeysEmpty = 10 - textAnswer.length() -1;
  } else if ( textAnswer.length() < 15 ) {</pre>
    lengthKeysEmpty = 15 - textAnswer.length() -1;
  }
  for(int j = 1; j <= lengthKeysEmpty ; j++){</pre>
    mStringArrayList.add("");
  }
```

```
}
private void obterMinhasLetras(String textAnswer){
  for(int i = 0; i < textAnswer.length(); i++){</pre>
    mStringArrayList.add(String.valueOf(textAnswer.charAt(i)));
  }
  adicionarLetraExtra();
  adicionarEspacosVazios(textAnswer);
}
private String[] embaralharListaLetras(String[] param){
  int posicao = 0;
  String s = "";
  for(int i = param.length-1; i > 0; i--) { //TORRE DE HANOI
    posicao = rnd.nextInt(i + 1);
    s = param[posicao];
    param[posicao] = param[i];
    param[i] = s;
    if(s==""){
      lengthKeysEmpty++;
    }
  }
  return param;
}
private void fazerValidacaoInput(){
  if( mEditTextInput.getText().toString().equals(textAnswer) ){
    Intent intent = new Intent(this, ShowCorrectActivity.class);
    startActivity(intent);
```

```
mEditTextInput.setText("");
   } else {
      Toast toastMessage = Toast.makeText(getApplicationContext(), "Errada", Toast.LENGTH_SHORT);
      View toastView = toastMessage.getView();
      toastView.setBackgroundResource(R.drawable.toast background image);
      toastMessage.show();
      pressCounter=0;
      mEditTextInput.setText("");
      keys = embaralharListaLetras(keys);
      mLinearLayoutLine1.removeAllViews();
      mLinearLayoutLine2.removeAllViews();
      mLinearLayoutLine3.removeAllViews();
      criarVisualizacaoLetras(keys);
   }
 }
 private void criarVisualizacaoLetras(String[] keys){
   int qteLetras = 0;
   for(String key: keys){
     if(qteLetras < 5){
        adicionarView((LinearLayout)findViewById(R.id.layoutParentLine1), key,
(EditText)findViewById(R.id.editTextInput)); //line 1
     } else if (qteLetras < 10) {
        adicionarView((LinearLayout)findViewById(R.id.layoutParentLine2), key,
(EditText)findViewById(R.id.editTextInput)); //line 2
     } else if( qteLetras < 15) {
        adicionarView((LinearLayout)findViewById(R.id.layoutParentLine3), key,
(EditText)findViewById(R.id.editTextInput)); //line 3
     } else{
        Toast.makeText(this, "Palavra muito grande", Toast.LENGTH_SHORT).show();
```

```
}
      qteLetras++;
 }
 private void adicionarView(LinearLayout viewParent, final String text, final EditText editText){
   LinearLayout.LayoutParams linearLayoutParams = new
LinearLayout.LayoutParams(LinearLayout.LayoutParams.WRAP_CONTENT,
        LinearLayout.LayoutParams.WRAP_CONTENT, 1.0f);
   linearLayoutParams.rightMargin=20;
   final TextView textView = new TextView(this);
   textView.setLayoutParams(linearLayoutParams);
   textView.setBackground (this.getResources ().getDrawable (R.drawable.back));\\
   textView.setTextColor(this.getResources().getColor(R.color.colorPurple));
   textView.setGravity(Gravity.CENTER);
   textView.setText(text);
   textView.setClickable(true);
   textView.setFocusable(true);
   textView.setTextSize(32);
   textView.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        if(pressCounter < maxPresCounter){</pre>
          if(pressCounter == 0){
            editText.setText("");
          }
          editText.setText(editText.getText().toString() + text);
          textView.animate().alpha(0).setDuration(300);
```

```
if(text != ""){
          pressCounter++;
        }
        if(pressCounter == maxPresCounter){
          fazerValidacaoInput();
        }
        textView.setOnClickListener(null); //corrige bug pressionamento no vácuo
      }
    }
  });
  viewParent.addView(textView);
}
@Override
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  mEditTextInput = findViewById(R.id.editTextInput);
  mLinearLayoutLine1 = findViewById(R.id.layoutParentLine1);
  mLinearLayoutLine2 = findViewById(R.id.layoutParentLine2);
  mLinearLayoutLine3 = findViewById(R.id.layoutParentLine3);
  mTextViewQuestion = findViewById(R.id.textViewQuestion);
  mTextViewScreen = findViewById(R.id.textViewScreen);
  mTextViewTitle = findViewById(R.id.textViewTitle);
```

```
maxPresCounter = textAnswer.length();

obterMinhasLetras(textAnswer);

keys = mStringArrayList.toArray(new String[mStringArrayList.size()]);
keys = embaralharListaLetras(keys);

criarVisualizacaoLetras(keys);

}
```

## Código arquivo ShowCorrectActitivy.java

@Override

```
package com.example.jogodapalavra;

import android.os.Bundle;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
import android.widget.ImageView;

import androidx.appcompat.app.AppCompatActivity;

public class ShowCorrectActivity extends AppCompatActivity {

private ImageView mBigImage;
private Animation mSmallToBig;
```

```
protected void onCreate(Bundle savedInstance){
    super.onCreate(savedInstance);
    setContentView(R.layout.activity_show_correct);

    mSmallToBig = AnimationUtils.loadAnimation(this, R.anim.smalltobig);
    mBigImage = findViewById(R.id.bigboss);
    mBigImage.startAnimation(mSmallToBig);
}
```

## Código arquivo AndroidManifest.xml

```
</ri>
</activity>

<activity android:name=".ShowCorrectActivity"

android:parentActivityName=".MainActivity"></activity>

</application>

</manifest>
```