

# **ABAS**

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#### Adicionando as Bibliotecas

Para criarmos nosso App com Abas, precisaremos adicionar algumas bibliotecas que servirão de recursos para trabalharmos com essa configuração, para isso vamos acessar:

<u>https://github.com/ogaclejapan/SmartTabLayout</u> copie e adicione essas duas linhas de código em **build.gradle(Module:app)**, em seguida clique em <u>Sync Now</u> para fazer o download.

implementation 'com.ogaclejapan.smarttablayout:library:2.0.0@aar' implementation 'com.ogaclejapan.smarttablayout:utils-v4:2.0.0@aar'

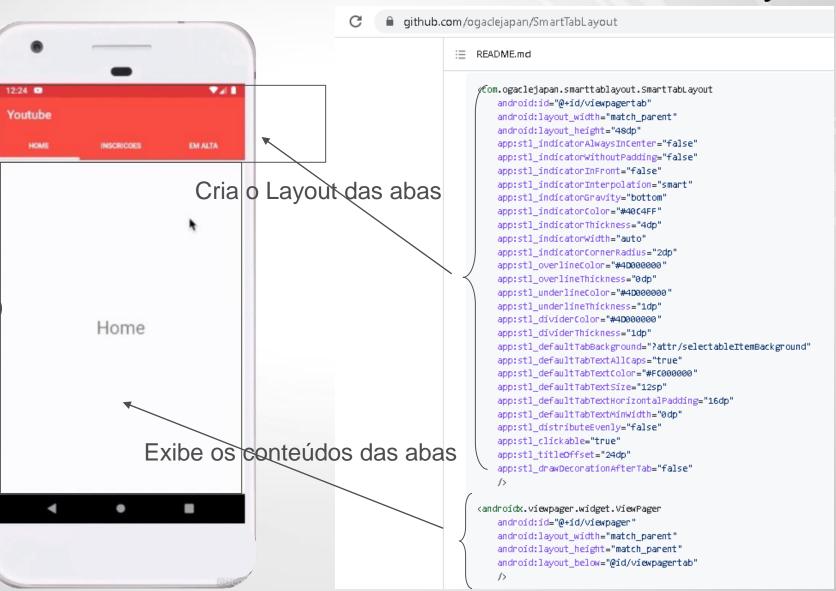
```
dependencies {

implementation 'com.ogaclejapan.smarttablayout:library:2.0.0@aar'
implementation 'com.ogaclejapan.smarttablayout:utils-v4:2.0.0@aar'

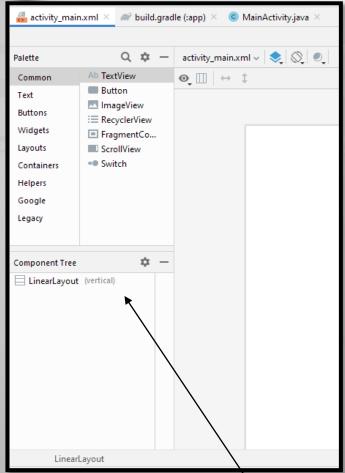
implementation 'androidx.appcompat:appcompat:1.6.1'
implementation 'com.google.android.material:material:1.9.0'
implementation 'androidx.constraintlayout:constraintlayout:2.1.4'
testImplementation 'junit:junit:4.13.2'
androidTestImplementation 'androidx.test.ext:junit:1.1.5'
androidTestImplementation 'androidx.test.espresso:espresso-core:3.
```

Layout

Acesse a página indicada e copie o código proposto para criação dos menus

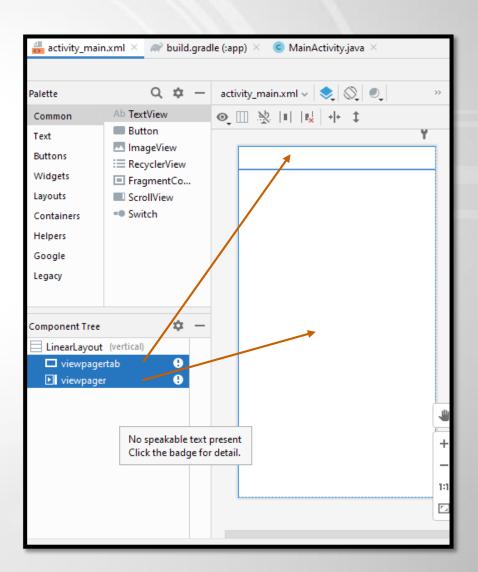








Texto copiado do link



Modifique para LinearLayout (Vertical)



```
public class MainActivity extends AppCompatActivity {
11
          1 usage
          SmartTabLayout smartTabLayout;
          1 usage
          private ViewPager viewPager;
13
14
          @Override
          protected void onCreate(Bundle savedInstanceState)
16 0
17
             super.onCreate(savedInstanceState);
             setContentView(R.layout.activity_main);
18
19
             smartTabLayout = findViewById(R.id.viewPagerTab);
             viewPager = findViewById(R.id.viewPager);
```

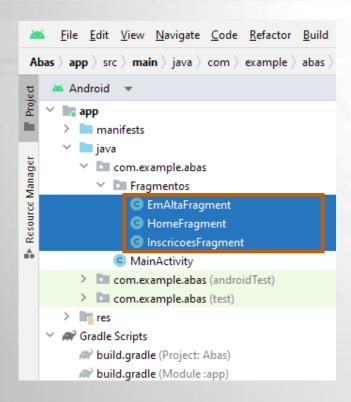
No MainActivity, crie referencias para os layouts

```
activity_main.xml
      <?xml version="1.0" encoding="utf-8"?>
      <LinearLayout xmlns:android="http://schemas.android.com/apk/res</p>
          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"
          tools:context=".MainActivity" >
          <com.ogaclejapan.smarttablayout SmartTabLayout</pre>
              android:id="@+id/viewPagerTab"
              android:layout_width="match_parent"
              android:layout_height="48dp"
              app:stl_indicatorAlwaysInCenter="false"
              app:stl_indicatorWithoutPadding="false"
              app:stl_indicatorInFront="false"
              app:stl_indicatorInterpolation="smart"
              app:stl_indicatorGravity="bottom"
              app:stl_indicatorColor="#40C4FF"
                                   MainActivity.java
                  activity_main.xml ×
               app:stl_distributeEvenly="false"
               app:stl_clickable="true"
               app:stl_titleOffset="24dp"
               app:stl_drawDecorationAfterTab="false"
            <androidx.viewpager.widget.ViewPager
               android:id="@+id/viewPager"
               android:layout_width="match_parent"
               android:layout_height="match_parent"
               android:layout_below="@id/viewPagerTab"
               />
        </LinearLayout>
```



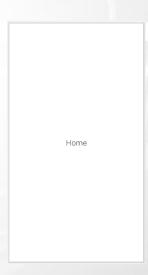
# Criando os Fragmentos

#### Crie um package e adicione três Fragmentos











# Configurando os Fragmentos



#### Configure os fragmentos, dentro da Classe MainActivity

```
File Edit View Navigate Code Refactor Build
      app > src > main > java > com > example > abas

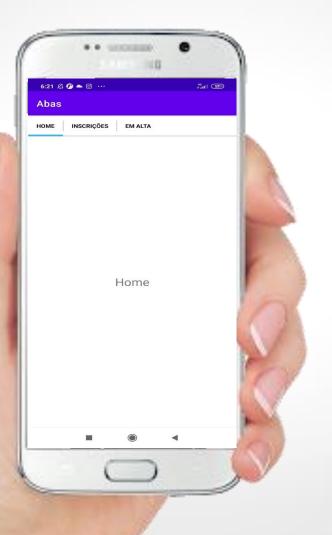
▲ Android ▼
      app app
        manifests
      iava
Resource Manager
        com.example.abas
           Fragmentos
                 EmAltaFragment
                 HomeFragment
                 InscricoesFragment

    MainActivity

         > a com.example.abas (androidTest)
         > com.example.abas (test)
      > res
   Gradle Scripts
         w build.gradle (Project: Abas)
         m build.gradle (Module :app)
```



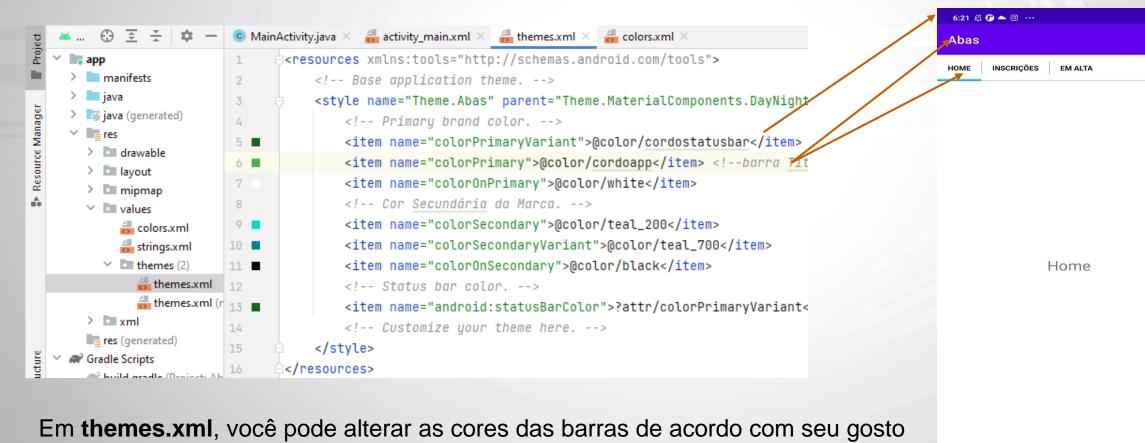
# Executando o App







#### Customizar as Abas



Lembre-se de criar essas cores em values/colors.xml

### Customizar as Abas

https://github.com/ogaclejapan/SmartTabLayout

```
a github.com/ogaclejapan/SmartTabLayout

    README.md

                  <com.ogaclejapan.smarttablayout.SmartTabLayout</pre>
                      android:id="@+id/viewpagertab"
                      android:layout_width="match_parent"
                      android:layout_height="48dp"
                      app:stl_indicatorAlwaysInCenter="false"
                      app:stl indicatorWithoutPadding="false"
                      app:stl_indicatorInFront="false"
                      app:stl indicatorInterpolation="smart"
                      app:stl_indicatorGravity="bottom"
                      app:stl_indicatorColor="#40C4FF"
                      app:stl indicatorThickness="4dp"
                      app:stl_indicatorWidth="auto"
                      app:stl_indicatorCornerRadius="2dp"
                      app:stl_overlineColor="#4D000000"
                      app:stl overlineThickness="0dp"
                      app:stl_underlineColor="#4D000000"
                      app:stl_underlineThickness="1dp"
                      app:stl_dividerColor="#4D000000"
                      app:stl_dividerThickness="1dp"
                      app:stl defaultTabBackground="?attr/selectableItemBackground"
                      app:stl defaultTabTextAllCaps="true"
                      app:stl_defaultTabTextColor="#FC000000"
                      app:stl_defaultTabTextSize="12sp"
                      app:stl_defaultTabTextHorizontalPadding="16dp"
                      app:stl defaultTabTextMinWidth="0dp"
                      app:stl_distributeEvenly="false"
                      app:stl_clickable="true"
                      app:stl_titleOffset="24dp"
                      app:stl_drawDecorationAfterTab="false"
                  candroidx.viewpager.widget.ViewPager
                      android:id="@+id/viewpager"
                      android:layout_width="match_parent"
                      android:layout_height="match_parent"
                      android:layout_below="@id/viewpagertab"
```



■ github.com/ogaclejapan/SmartTabLayout			
	⊞ README.md		
	Attributes		
	There are several attributes you can set:		
	attr	description	
	stl_indicatorAlwaysInCenter	If set to true, active tab is always displayed in center google app), default false	
	stl_indicatorWithoutPadding	If set to true, draw the indicator without padding of	
	stl_indicatorInFront	Draw the indicator in front of the underline, default f	
	stl_indicatorInterpolation	Behavior of the indicator: 'linear' or 'smart'	
	stl_indicatorGravity	Drawing position of the indicator: 'bottom' or 'top' o' 'bottom'	
	stl_indicatorColor	Color of the indicator	
	stl_indicatorColors	Multiple colors of the indicator, can set the color for	
	stl_indicatorThickness	Thickness of the indicator	
	stl_indicatorWidth	Width of the indicator, default 'auto'	
	stl_indicatorCornerRadius	Radius of rounded corner the indicator	
	stl_overlineColor	Color of the top line	
	stl_overlineThickness	Thickness of the top line	
	stl_underlineColor	Color of the bottom line	
	stl_underlineThickness	Thickness of the bottom line	

No link fornecido anteriormente, você tem a descrição de cada atributo da barra das Abas, vamos alterar alguns desse atributos



app:stl\_defaultTabTextAllCaps="false" app:stl\_defaultTabTextColor="@color/cortextoabas" app:stl\_defaultTabTextSize="14sp"

- → Maiúsculo ou Minúsculo
- → A cor do texto
- → Tamanho da fonte

app:stl\_dividerColor="#4D000000"
app:stl\_dividerThickness="1dp"

→ Cor do divisor de menu

Customizar as Abas

→ Espessura do divisor de menu

app:stl\_indicatorGravity="bottom" app:stl\_indicatorColor="#FFFFF" app:stl\_indicatorThickness="4dp" app:stl\_indicatorCornerRadius="2dp"

- → A posição do indicador
- → A cor do indicador
- → Espessura do indicador
- → O Arredondamento do indicador

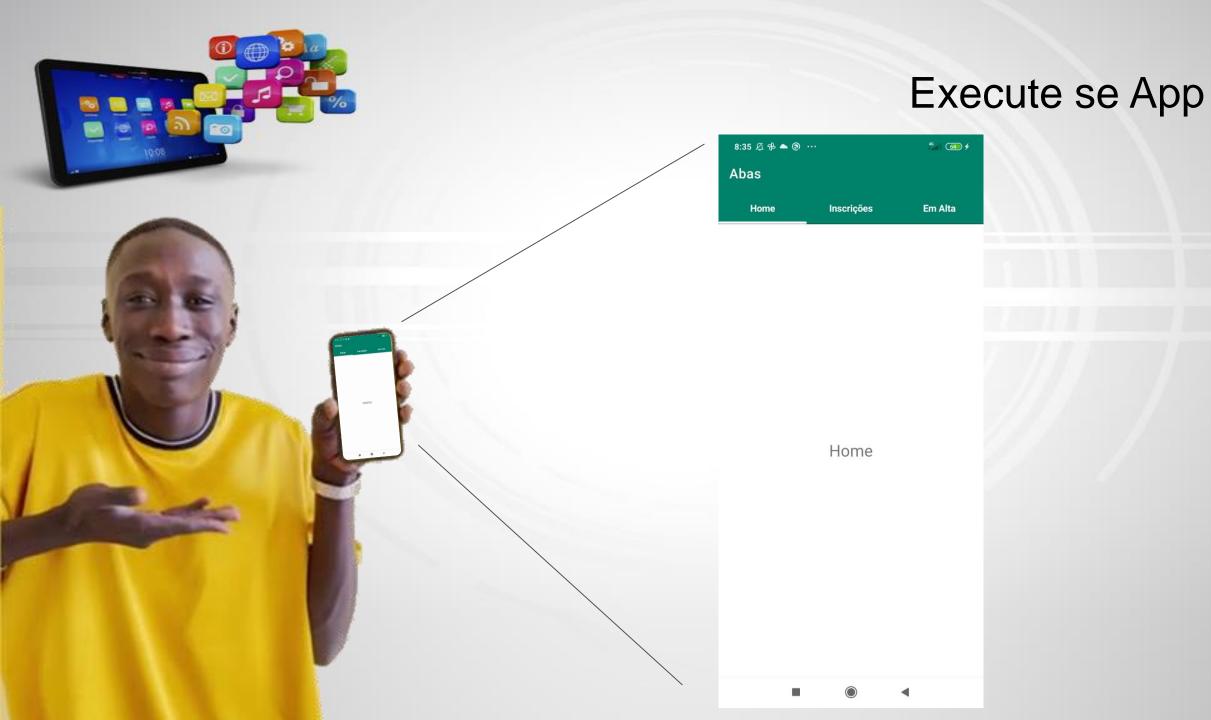
app:stl\_distributeEvenly="true"

→ **True**: Defini o as abas do tamanho do seu conteúdo

→ False: Usa o espaço disponível no App

android:background="@color/cordoapp"

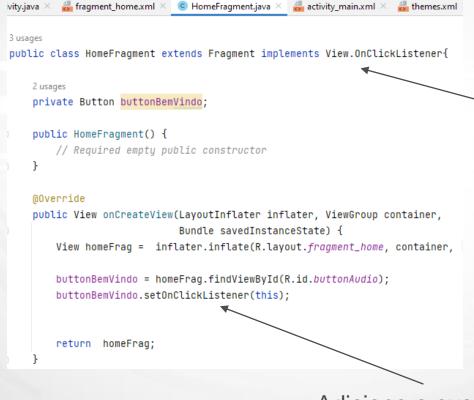
→ A cor das Abas





# 116 Aperte o botão para ouvir o Audio

# Adicionando botão com áudio



Adicione o **impements** para que o evento de clique possa acontecer em toda classe, com um evento global

Adicione o evento de clique ao botão

Adicione esse Layout no Fragment Home



# Atividade: Aprenda inglês

Crie um App, que possua três Abas: Bichos, Números e Vogais.

Adicione às abas, imagens que correspondente ao seu nome.

Ao usuário, clicar em cima da imagem, será reproduzido um áudio correspondente a imagem.

**Éxemplo Abas Bichos Áudio**: dog, cat, lion ....

**Éxemplo Aba Números Áudio**: one, two, three...





