

Manifesto do aplicativo

Todo aplicativo tem que ter um arquivo AndroidManifest.xml (precisamente com esse nome) no diretório raiz. O arquivo de manifesto apresenta informações essenciais sobre o aplicativo ao sistema Android, necessárias para o sistema antes que ele possa executar o código do aplicativo.

Entre outras coisas, o arquivo do manifesto serve para:

- Nomear o pacote Java para o aplicativo. O nome do pacote serve como identificador exclusivo para o aplicativo.
- Descrever os componentes do aplicativo, que abrangem atividades, serviços, receptores de transmissão e provedores de conteúdo que compõem o aplicativo. Ele também nomeia a classe que implementa cada um dos componentes e publica suas capacidades, como as mensagens Intent que podem lidar. Essas declarações informam ao sistema Android os componentes e as condições em que eles podem ser inicializados.
- Determinar os processos que hospedam os componentes de aplicativo.
- Declarar as permissões que o aplicativo deve ter para acessar partes protegidas da API e interagir com outros aplicativos. Ele também declara as permissões que outros devem ter para interagir com os componentes do aplicativo.
- Listar as classes Instrumentation que fornecem geração de perfil e outras informações durante a execução do aplicativo. Essas
 declarações estão presentes no manifesto somente enquanto o aplicativo está em desenvolvimento e são removidas antes da publicação do
 aplicativo.
- Declarar o nível mínimo da Android API que o aplicativo exige.
- · Listar as bibliotecas às quais o aplicativo deve se vincular.

Neste documento

- Estrutura do arquivo do manifesto
- > Convenções de arquivo
- > Recursos de arquivo
 - > Filtros de intent
 - Ícones e rótulos
 - > Permissões
 - > Bibliotecas

```
<?xml version="1.0" encoding="utf-8"?>
 ⊖ <manifest xmlns:android="http://schemas.android.com/apk/res/android"
       package="pacote.da.sua.app"
       android:versionCode="1"
       android:versionName="1.0" >
       <uses-sdk android:minSdkVersion="7" />
       <application
           android:icon="@drawable/ic launcher"
           android:label="@string/app name" >
           <activity
               android:name=".MeuProjetoActivity"
               android:label="@string/app name" >
               <intent-filter>
                   <action android:name="android.intent.action.MAIN" />
                   <category android:name="android.intent.category.LAUNCHER" />
               </intent-filter>
           </activity>
       </application>
   </manifest>
■ Manifest A Application Permissions Instrumentation AndroidManifest.xml
```

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Activity (Java)

Tela





Activity (Java)
+

Tela



Tela



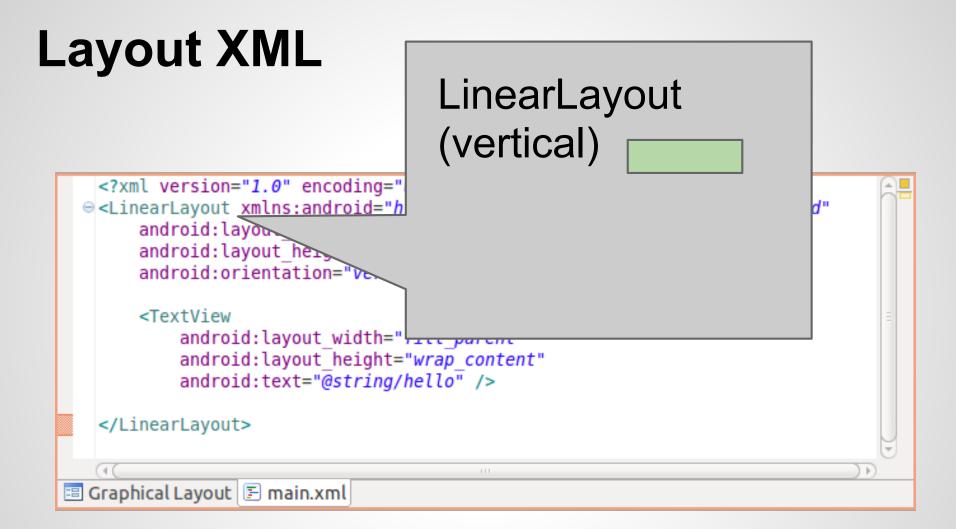
Activity (Java)

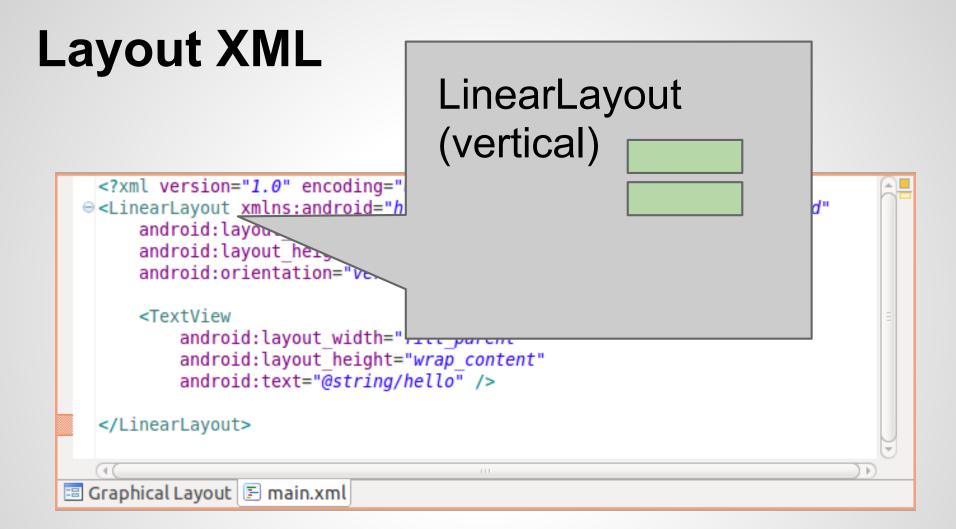
Hayout (xml)

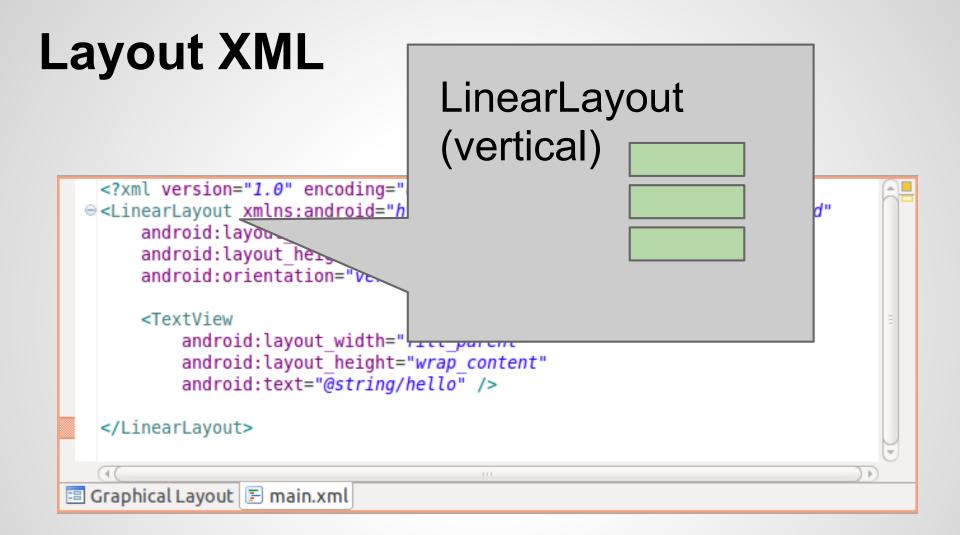


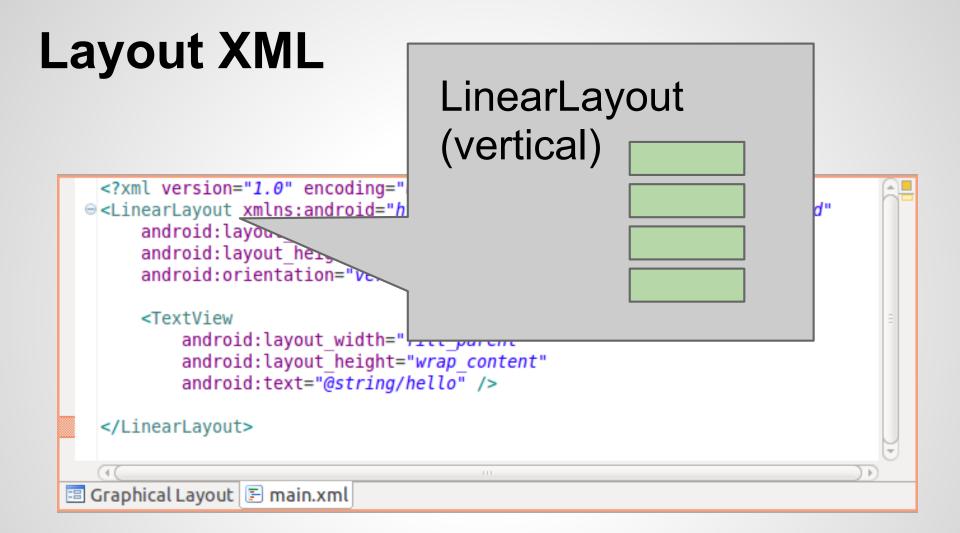
Layout XML

Layout XML LinearLayout (vertical) <?xml version="1.0" encoding="</pre> ⊖<LinearLayout xmlns:android="h android: layou android: layout her android:orientation="ve <TextView android:layout_width="\frac{\f android:layout_height="wrap_content" android:text="@string/hello" /> </LinearLayout> 🖪 Graphical Layout 📳 main.xml

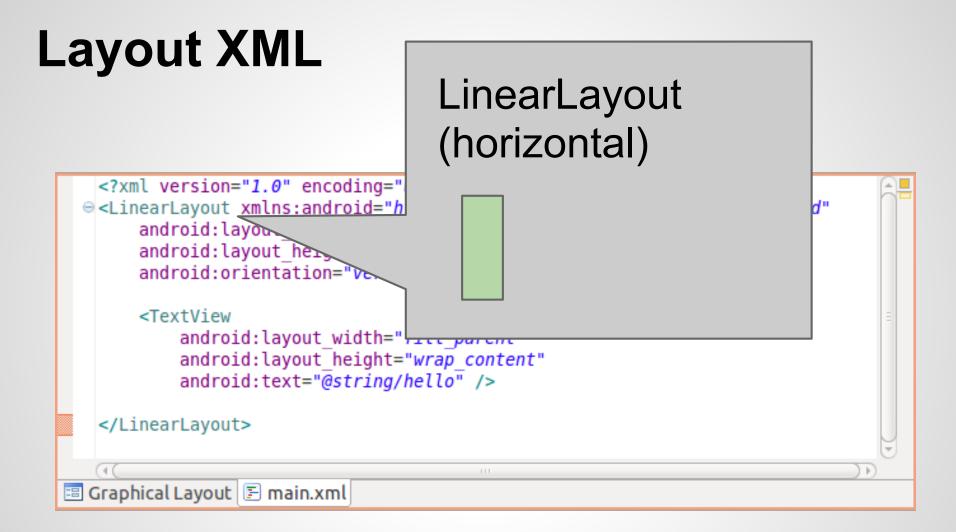


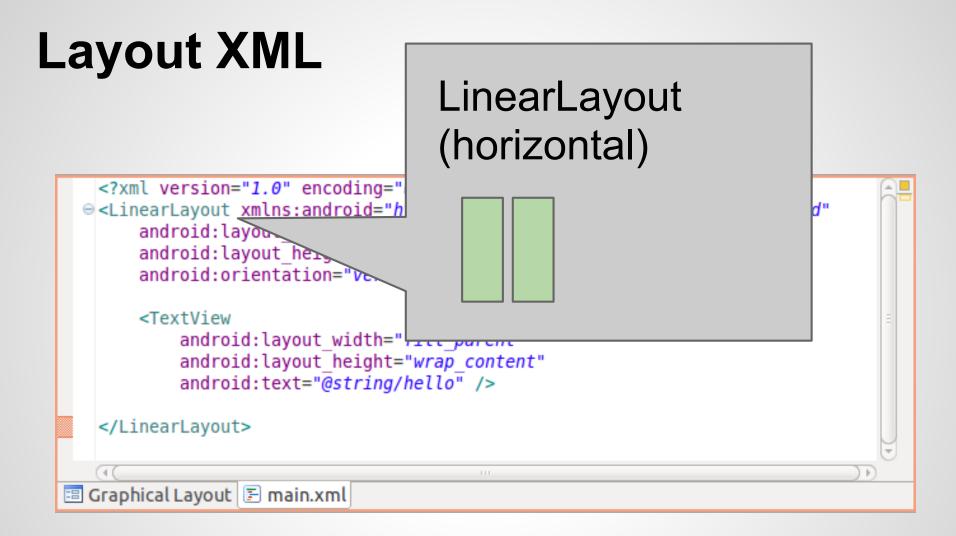


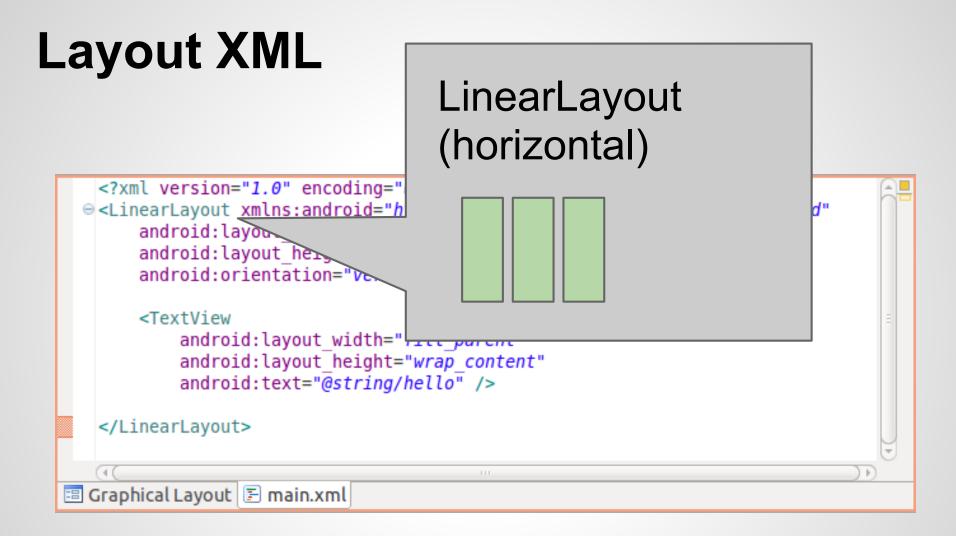


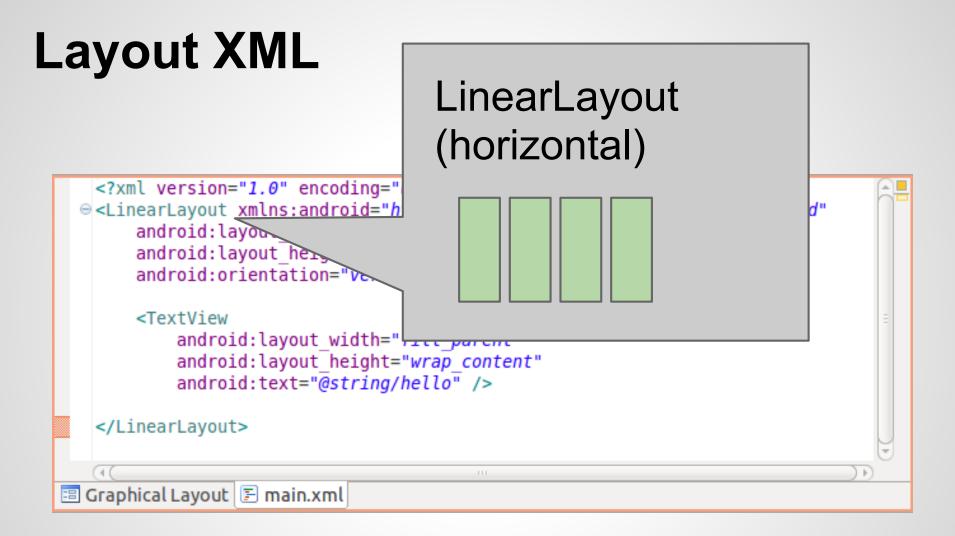


Layout XML LinearLayout (horizontal) <?xml version="1.0" encoding="</pre> ⊖<LinearLayout xmlns:android="h android: layou android: layout her android:orientation="ve <TextView android:layout_width="\frac{\f android:layout_height="wrap_content" android:text="@string/hello" /> </LinearLayout> 🖪 Graphical Layout 📳 main.xml

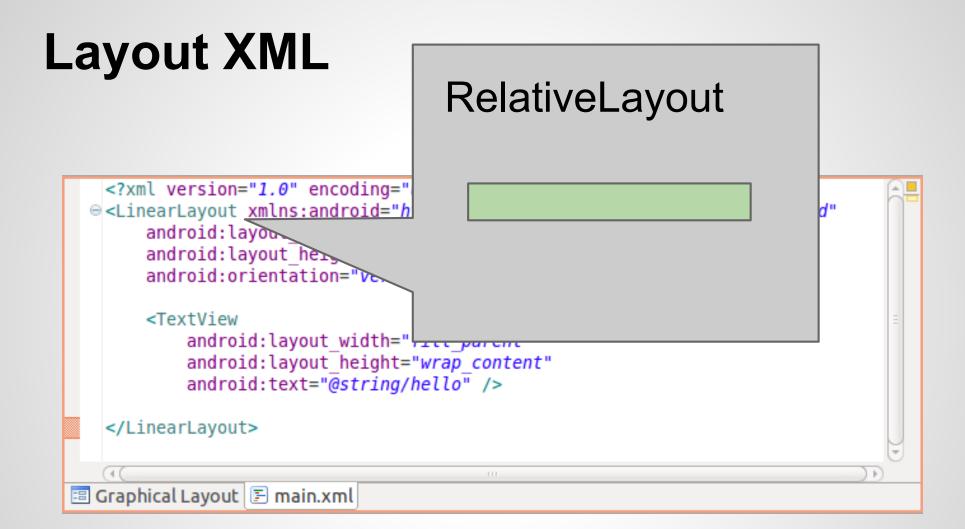


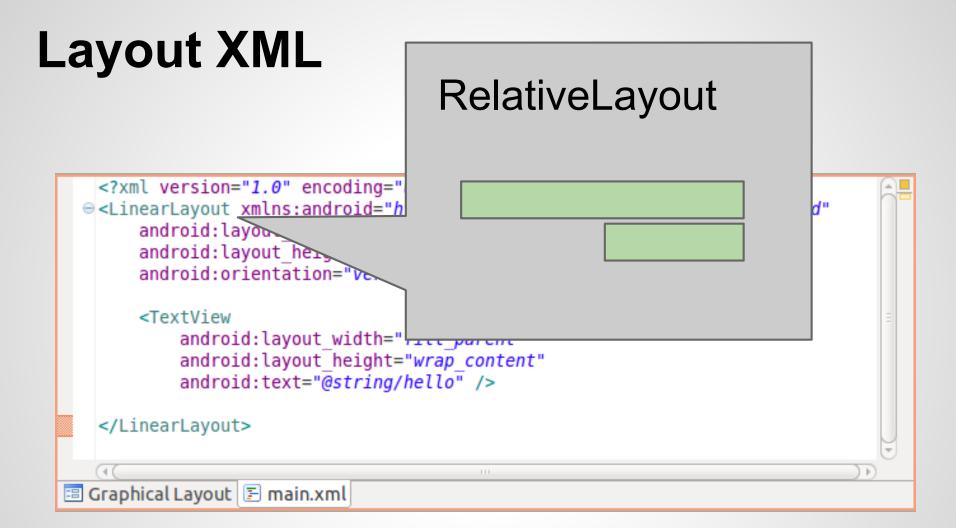


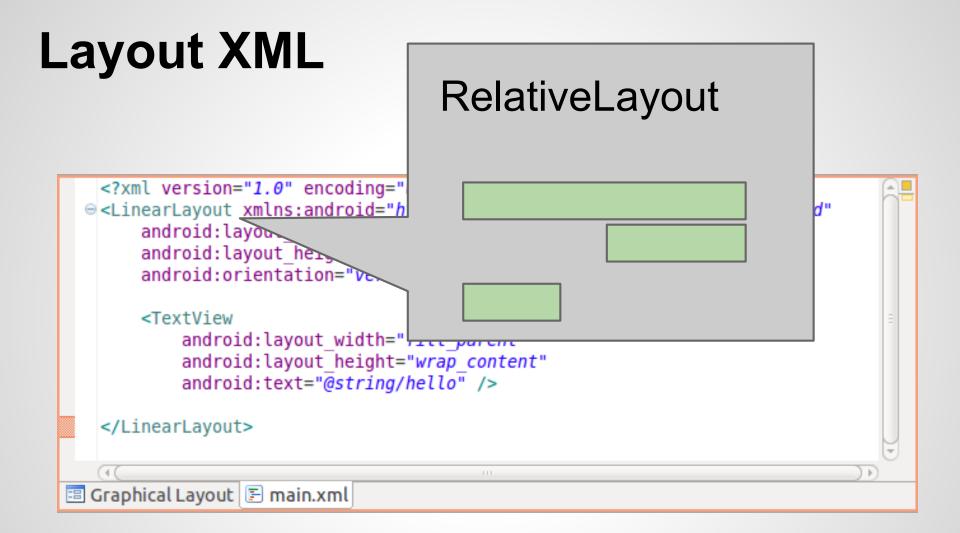




Layout XML RelativeLayout <?xml version="1.0" encoding="</pre> ⊖<LinearLayout xmlns:android="h android: layou android: layout her android:orientation="ve <TextView android:layout_width="\frac{\f android:layout_height="wrap_content" android:text="@string/hello" /> </LinearLayout> 🖪 Graphical Layout 📳 main.xml







<RadioButton>



<RadioButton>



RadioButton



<RadioButton>
RadioButton

<RatingBar>



<TextView>
Texto

<RadioButton>
RadioButton

<RatingBar>



<TextView>
Texto

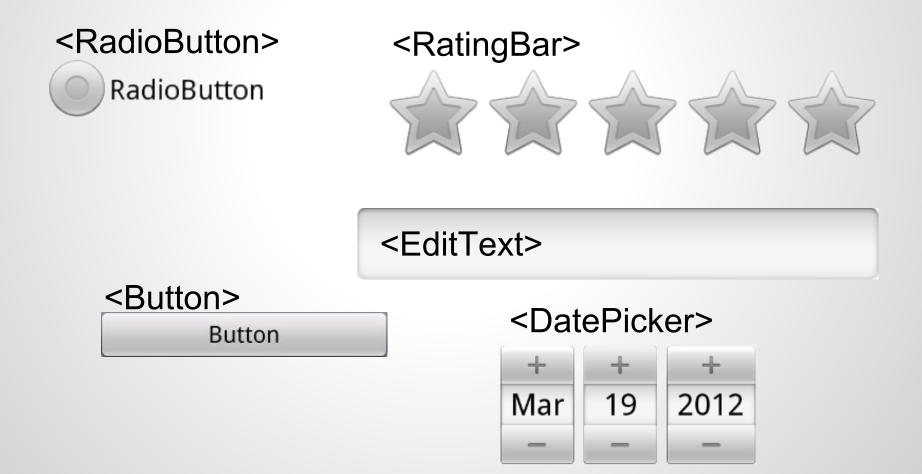
<RadioButton>
RadioButton



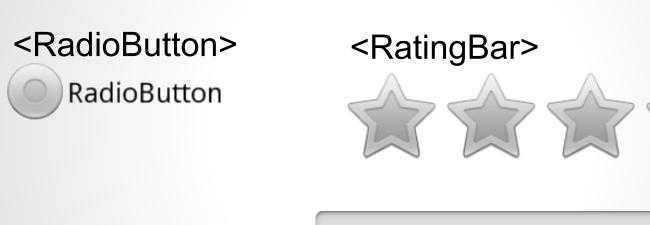
<Button>
Button



<TextView>
Texto



<TextView> Texto <CheckBox>
CheckBox



<EditText>





Texto CheckBox <RadioButton> <RatingBar> RadioButton Etc... <EditText> <Button> <DatePicker> Button 19 2012 Mar

<TextView>

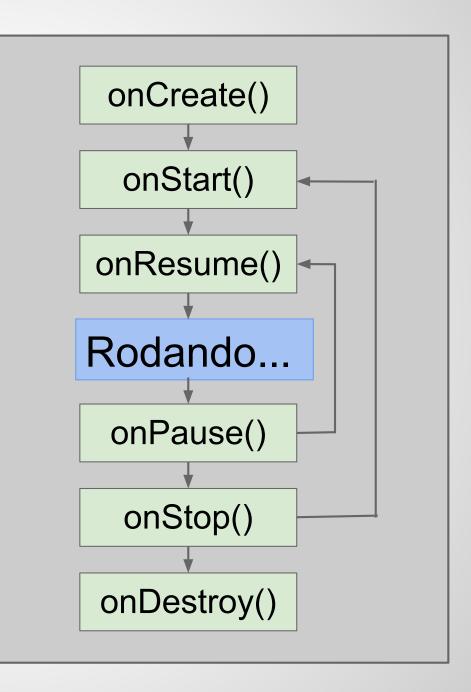
<CheckBox>

```
▶ ☐ MeuProjeto ▶ ☐ src ▶ ☐ pacote.da.sua.app ▶ ☐ MeuProjetoActivity ▶
  package pacote.da.sua.app;
 mport android.app.Activity;
  public class MeuProjetoActivity extends Activity {
      /** Called when the activity is first created. */
      @Override
      public void onCreate(Bundle savedInstanceState) {
          super.onCreate(savedInstanceState);
          setContentView(R.layout.tela);
```

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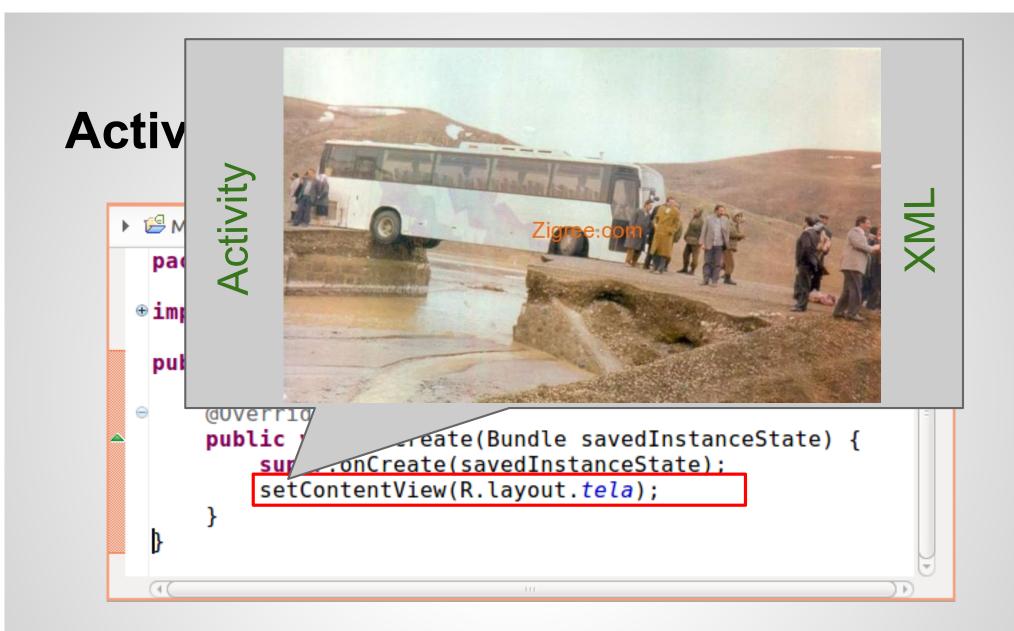
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  package pacote.da.sua.apg
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```



Referência para uma View

Activity _____ Layout XML

? ____ < Button
android:layout_width="..."
android:layout_height="..."
android:layout_id="@+id/botao"
/>

Referência para uma View

```
Activity _____ Layout XML

findViewById(?) < Button
android:layout_width="..."
android:layout_height="..."
android:layout_id="@+id/botao"
/>
```