Fragments

Criar um novo projeto

R	Create New Project	×
New Android S	Project	
Configure you	r new project	
5,		
Application name:	ExemploFragmentApp	
<u>C</u> ompany domain:	exemploretrofitapp.guarino.example.com	
Package name:	com.example.guarino.exemploretrofitapp.exemplofragmentapp	Edit
	Include C++ support	
Project location:	C:\Users\Guarino\AndroidStudioProjects\ExemploFragmentApp	
	Previous <u>N</u> ext Cancel Finish	

Selecionar a API

*	Create New Project	· · · · · · · · · · · · · · · · · · ·	×
Target Android De	vices		
Select the form factors your app w	ill run on		
Different platforms may require separate SDKs			
Phone and Table	t		
Minimum SDK	API 16: Android 4.1 (Jelly Bean)		•
	Lower API levels target more devices, but have fewer features available.		
	By targeting API 16 and later, your app will run on approximately 99,2% of the devices that are active on the Google Play Store.		
	Help me choose		
Wear			
Minimum SDK	API 21: Android 5.0 (Lollipop)		•
□ TV			
Minimum SDK	API 21: Android 5.0 (Lollipop)		•
Android Auto			
		Previous Next	Cancel Finish

Navigation Drawer Activity

2		Create New Project		×
Add an Activity	/ to Mobile			
Add No Activity	¢ :	€ :	€	< E3
	Basic Activity	Bottom Navigation Activity	Empty Activity	Fullscreen Activity
E A B B B B B B B B B B B B B B B B B B	e i	← :		• • •
Google AdMob Ads Activity	Google Maps Activity	Login Activity	Master/Detail Flow	Navigation Drawer Activity
			Previous	Next Cancel Finish

MainActivity

2	Create New Project	×
Customize the Act	vity	
Navigation Drawer Activity	Creates a new Activity with a Navigation Drawer. Activity Name: MainActivity Layout Name: activity_main Title: MainActivity	
	The name of the activity class to create	
	Previous Next	Cancel <u>Einish</u>

Finish.

Adicionar as Dependências do ButterKnife.

- butterknife
- butterknife-compiler.

Veja o tutorial do ButterKnife no site.

Adicionar um Fragment.

No pacote principal, clique com o botão direito e adicione uma nova Java Class.

👾 Android 👻	⊕ ≑ ‡- ⊮	C MainActivity.java ×	ontent_main.xml ×	app_bar_main.xml 🔅	× 🙆 nav_header_main.xml ×
🔻 🗖 арр					
manifests	New				G Java Class
V 🗖 java	L . c Link C	+ + Project with Gradle			Android resource file
com.example.guarino.exemp		· · · · · · · · · · · · · · · · · · ·		CH-V	Android resource directory
MainActivity	aloretrofi 🕅 Comu			Ctrl+X	🖹 File
				Ctri+C	🛅 Package

Crie a classe PrimeiroFragment, que deve herdar a classe Fragment. Porém, selecione o Fragment (android.support.v4.app) para manter a retrocompatibilidade.

	Create New Class
<u>N</u> ame:	PrimeiroFragment
<u>(</u> ind:	C Class
uperclass:	Fragment
nterfaci 👝 a	Fragment (android.app)
ackage	 Fragment (android.support.v4.app) FragmentableStreamMemento (com.sun.corba.se.impl.encoding.CDRInputStream FragmentActivity (android.support.v4.app)
(isibility 🙆 🤉	 FragmentContainer (android.app) FragmentContainer (android.support.v4.app)
<u>A</u> odifie &	 FragmentContainerTransition (android.support.v4.app.FragmentTransition) FragmentContentDriver (com.sun.org.apache.xerces.internal.impl.XMLDocumentF
Show Se	lect Overrides <u>D</u> ialog
	OK Cancel Help

A superclass deve ficar como na figura a seguir.

<u>@</u>	C	reate New Class		×				
<u>N</u> ame:	PrimeiroFragment							
<u>K</u> ind:	Class	© Class						
<u>S</u> uperclass:	android.support.v4.app.	Fragment						
<u>Interface(s)</u> :								
<u>P</u> ackage:	com.example.guarino.ex	emploretrofitapp.exemplof	ragmentapp					
<u>V</u> isibility:	• P <u>u</u> blic	O Package P <u>r</u> ivate						
<u>M</u> odifiers:	One	O <u>A</u> bstract	O <u>F</u> inal					
Show Se	elect Overrides <u>D</u> ialog							
		ок	Cancel Help	,				

Clique em OK.

Adicione o evento onCreateView

/**
* Created by Guarino on 14/10/2017.
*/
public class PrimeiroFragment extends Fragment {
onCrea
mot public Animation onCreateAnimation(transit, enter, ne Fragment
morpublic void onCreate (savedInstanceState) {} Fragment
molic View on Create View (inflater, container, savedInstanceState) [] Fragment
public void on Create Context Menu (menu v menu Info) / Fragment
- public vold oneredeconcerence and a second of the second
mon public vold oncreateOptionsMenu (menu, inflater) {} fragment
molic void onActivityCreated (savedInstanceState) [] Fragment
mei public void onViewCreated (view, savedInstanceState) { Fragment π
\mathbb{W}^{-1} public volu onviewcicated (view, savedinstancestate) { fragment π

O código inicialmente deve ficar como segue:

```
public class PrimeiroFragment extends Fragment {
    @Nullable
    @Override
    public View onCreateView(LayoutInflater inflater, @Nullable ViewGroup
    container, @Nullable Bundle savedInstanceState) {
        View view = super.onCreateView(inflater, container, savedInstanceState);
        ButterKnife.bind(this, view);
        return view;
    }
}
```

Agora, devemos criar o resource do fragment. Na pasta layout, botão direito > Layout resource file.



Adicione o fragment_primeiro

@		N	lew Resource File	×
<u>F</u> ile name:	fragment_primeiro			
Root <u>e</u> lement:	LinearLayout			
Source set:	main		•	
Directory name:	layout			
A <u>v</u> ailable qualifier	5:		C <u>h</u> osen qualifiers:	
Country Code Country Code Cocale Layout Directi Smallest Scree Screen Width Screen Height Size Ratio Crientation UI Mode Night Mode Density	e ion en Width t	>> <<	Nothing to show	
			ок	Cancel Help

Clique em OK.

```
Remova a linha
<?xml version="1.0" encoding="utf-8"?>
do fragment. Deixe o fragment como segue.
```

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   android:orientation="vertical" android:layout width="match parent"
   android:layout_height="match_parent"
   android:padding="16dp"
   tools:context=
"com.example.guarino.exemploretrofitapp.exemplofragmentapp.PrimeiroFragment"
   >
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Digite o nome: "/>
    <EditText
        android: layout width="match parent"
        android: layout height="wrap content"
        android:id="@+id/edtNome"/>
    <Button
        android:layout width="match parent"
        android: layout height="wrap content"
        android:text="Próximo"
        android:id="@+id/btnProximo"/>
</LinearLayout>
```

Altere o onCreateView do PrimeiroFragment para

```
public View onCreateView(LayoutInflater inflater, @Nullable ViewGroup container,
@Nullable Bundle savedInstanceState) {
    View view = inflater.inflate(R.layout.fragment_primeiro, container,
false);
    ButterKnife.bind(this, view);
    return view;
  }
```

Alterando a MainActivity para aceitar Fragments.

Abra o arquivo app_bar_main.xml.

Procure pela linha

```
<include layout="@layout/content_main" />
```

Remova esta linha.

...

Adicione o bloco a seguir do fechamento do AppBarLayout, ou seja, no lugar da linha removida.

```
<FrameLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/fragment_main">
    </FrameLayout>
```

Em seguida, coloque o AppBarLayout e o FrameLayout dentro de um LinearLayout.

```
<FrameLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/fragment_main">
    </FrameLayout>
```

</LinearLayout>

.

Na MainActivity, no fechamento do OnCreate, adicione a chamada do Fragment.

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
    setSupportActionBar(toolbar);
    FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab);
    fab.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Snackbar.make(view, "Replace with your own action",
Snackbar. LENGTH LONG)
                    .setAction("Action", null).show();
        }
    });
    DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer layout);
    ActionBarDrawerToggle toggle = new ActionBarDrawerToggle(
            this, drawer, toolbar, R.string.navigation drawer open,
R.string.navigation drawer close);
    drawer.setDrawerListener(toggle);
    toggle.syncState();
    NavigationView navigationView = (NavigationView)
findViewById(R.id.nav view);
    navigationView.setNavigationItemSelectedListener(this);
    FragmentManager fragmentManager = getSupportFragmentManager();
   FragmentTransaction transaction = fragmentManager.beginTransaction();
    transaction.add(R.id.fragment main, new PrimeiroFragment());
    transaction.commit();
```

Execute a aplicação.

Irá aparecer o Fragment dentro da Activity.

Adicionando o segundo fragment. Adicione uma nova Java Classe no pacote principal.

R	Cr	eate New Class		×				
<u>N</u> ame:	SegundoFragment							
<u>K</u> ind:	Class	C Class						
<u>S</u> uperclass:	android.support.v4.app.f	ragment						
Interface(s):								
<u>P</u> ackage:	com.example.guarino.ex	emploretrofitapp.exemplofra	gmentapp					
<u>V</u> isibility:	• P <u>u</u> blic	Package P <u>r</u> ivate						
<u>M</u> odifiers:	 None 	O <u>A</u> bstract	O <u>F</u> inal					
Show Select Overrides <u>D</u> ialog								
		ОК	Cancel H	elp				

Na pasta layout, crie o resource para o fragment.

2		N	lew Resource File	×
<u>F</u> ile name:	fragment_segundo			
Root <u>e</u> lement:	LinearLayout			
<u>S</u> ource set:	main		•	
Directory name:	layout			
A <u>v</u> ailable qualifier	'S:		C <u>h</u> osen qualifiers:	
 Country Code Network Code Locale Layout Direct Smallest Scree Screen Width Screen Heigh Size Ratio Orientation UI Mode Night Mode Density 	e ion en Width t	>>	Nothing to show	
			ок	Cancel Help

Volte no SegundoFragment e adicione o onCreateView.

```
public class SegundoFragment extends Fragment {
    @Nullable
    @Override
    public View onCreateView(LayoutInflater inflater, @Nullable ViewGroup
    container, @Nullable Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_segundo, container,
        false);
        ButterKnife.bind(this, view);
        return view;
    }
}
```

Abra o fragment_segundo e remova a linha

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

Altere o arquivo para...

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp"
tools:context="com.example.guarino.exemploretrofitapp.exemplofragmentapp.Segundo
Fragment"
    >
```

```
<TextView
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Segundo fragment"/>
```

</LinearLayout>

Abra o arquivo activity_main_drawer.xml na pasta menu.

Altere os dois primeiros itens para chamar os dois fragments. Comente os demais itens.

```
android:title="Segundo Fragment" />
</group>
<!--<item android:title="Communicate">-->
<!--<menu>-->
<!--<item-->
<!--android:id="@+id/nav share"-->
<!--android:icon="@drawable/ic_menu_share"-->
<!--android:title="Share" />-->
<!--<item-->
<!--android:id="@+id/nav send"-->
<!--android:icon="@drawable/ic_menu_send"-->
<!--android:icon="@drawable/ic_menu_send"-->
<!--android:title="Send" />-->
<!--</menu>-->
<!--</pre>
```

</menu>

Abra a MainActivity e altere a chamada do menu que fica no evento onNavigationItemSelected



Execute a aplicação. Chame o primeiro fragment.

Chame o segundo fragment.