



Support Library v23 + Design Support Library

Material Design consistente entre diferentes versões do Android

Android Developer Conference

São Paulo, 2015





Walmyr Carvalho

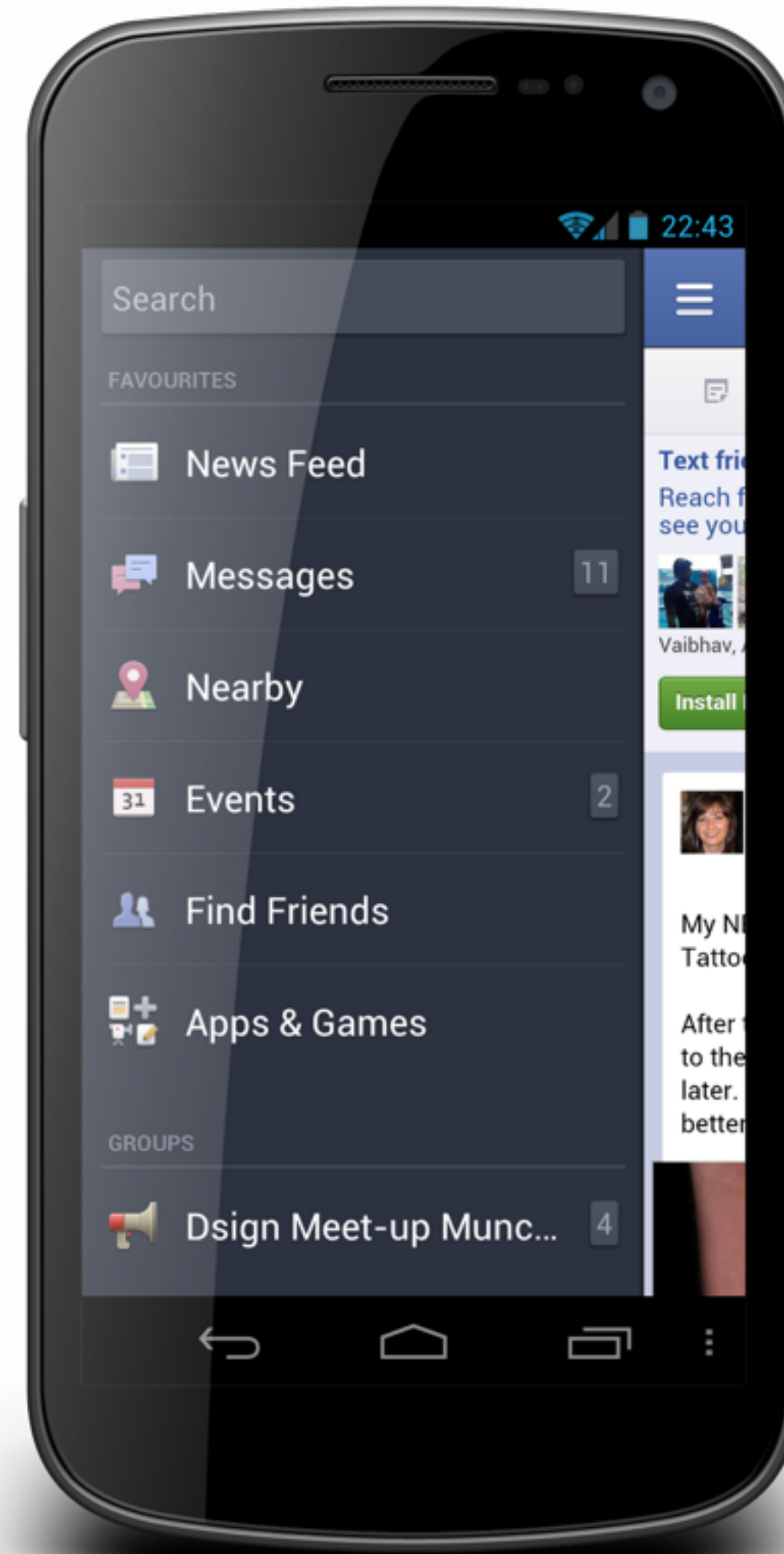
@walmyrcarvalho





Contexto

No início do Android, não existia uma guideline,
apps maiores meio que ditavam as regras



Daí surgiram várias bibliotecas e projetos open source com o objetivo de “resolver” o problema

ActionBarSherlock

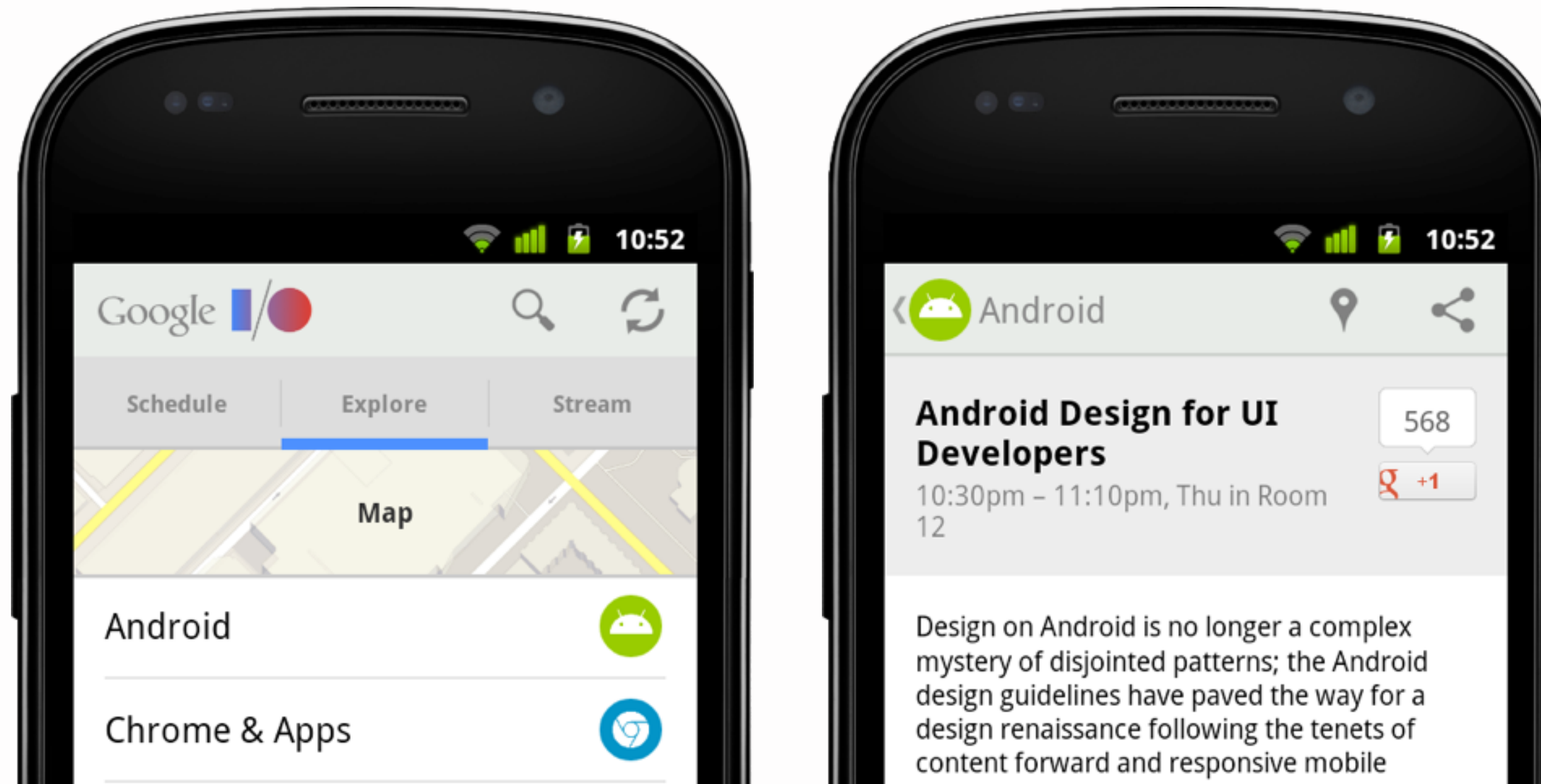
Jake Wharton



Porém, o Google percebeu que não poderia deixar a comunidade se escorando em soluções de terceiros

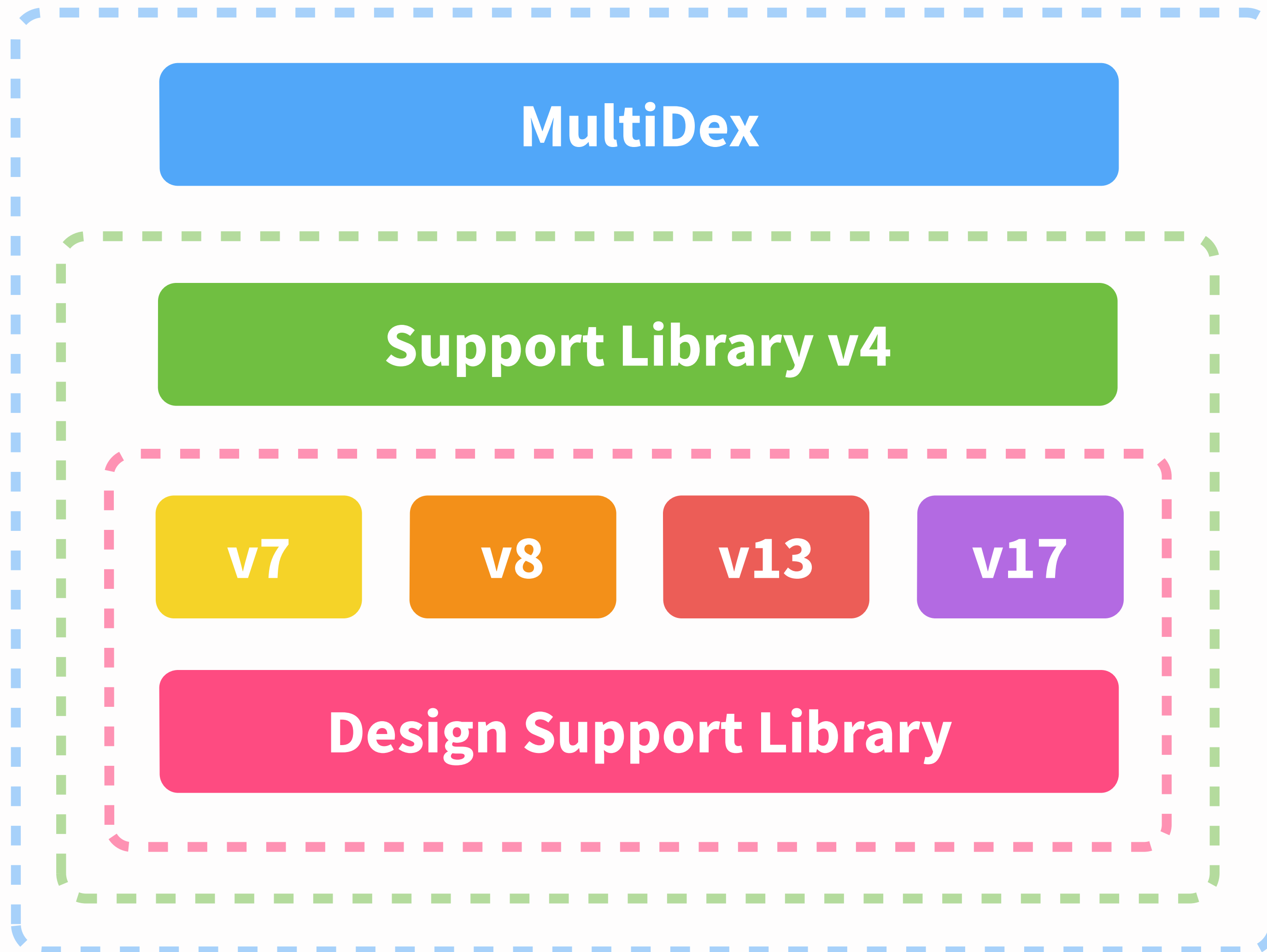
ActionBarCompat

Google



Daí surgiu uma oportunidade de o Google tornar compatível mais classes e APIs do Android pra versões mais antigas

Support Library



Design Support Library

```
.../your_app_module/build.gradle
```

```
dependencies {  
    compile 'com.android.support:design:23.0.0'  
}
```


NavigationView

FloatingActionButton

Snackbar

TabLayout

TextInputLayout

CollapsingToolbarLayout

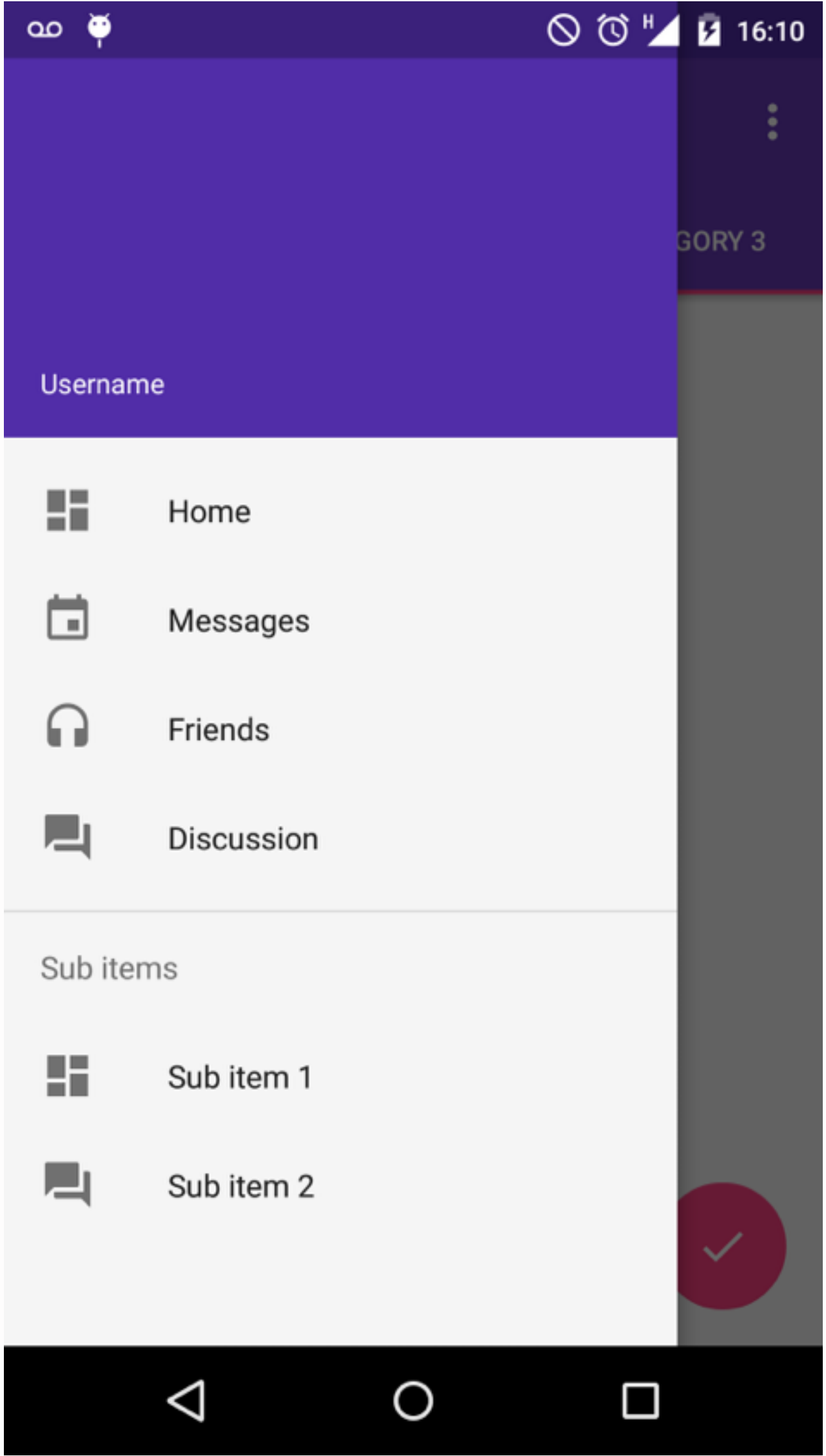
Novidades da v23

Preference support library v7, v14 e v17 (TV)

Percent support library

Diversas outras melhorias nas APIs já disponíveis

NavigationView



.../res/layout/activity_main.xml

```
<android.support.v4.widget.DrawerLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/drawer_layout"
    android:layout_height="match_parent"
    android:layout_width="match_parent"
    android:fitsSystemWindows="true">

    <include layout="@layout/include_list_viewpager"/>

    <android.support.design.widget.NavigationView
        android:id="@+id/nav_view"
        android:layout_height="match_parent"
        android:layout_width="wrap_content"
        android:layout_gravity="start"
        android:fitsSystemWindows="true"
        app:headerLayout="@layout/nav_header"
        app:menu="@menu/drawer_view"/>

</android.support.v4.widget.DrawerLayout>
```

.../res/menu/drawer_view.xml

...

```
<group android:checkableBehavior="single">
  <item
    android:id="@+id/nav_home"
    android:icon="@drawable/ic_dashboard"
    android:title="Home" />
  <item
    android:id="@+id/nav_messages"
    android:icon="@drawable/ic_event"
    android:title="Messages" />
  <item
    android:id="@+id/nav_friends"
    android:icon="@drawable/ic_headset"
    android:title="Friends" />
  <item
    android:id="@+id/nav_discussion"
    android:icon="@drawable/ic_forum"
    android:title="Discussion" />
</group>
```

...

```
.../res/menu/drawer_view.xml
```

```
...
```

```
<item android:title="Sub items">  
    <menu>  
        <item  
            android:icon="@drawable/ic_dashboard"  
            android:title="Sub item 1" />  
        <item  
            android:icon="@drawable/ic_forum"  
            android:title="Sub item 2" />  
    </menu>  
</item>
```

```
...
```


.../src/MainActivity.java

```
NavigationView navigationView = (NavigationView) findViewById(R.id.nav_view);
navigationView.setNavigationItemSelectedListener(
    new NavigationView.OnNavigationItemSelectedListener() {

        @Override
        public boolean onNavigationItemSelected(MenuItem menuItem) {
            menuItem.setChecked(true);
            mDrawerLayout.closeDrawers();
            return true;
        }

    });
```

FloatingActionButton



.../src/MainActivity.java

```
FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab);
fab.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        // Ação do clique
    }
});

// Exibir e esconder o FAB
fab.hide();
fab.show();
```

```
.../res/layout/activity_main.xml
```

```
<android.support.design.widget.FloatingActionButton  
    android:id="@+id/fab"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:gravity="bottom|right"  
    android:src="@drawable/ic_done"  
    app:fabSize="normal"  
    app:elevation="6dp"  
    app:pressedTranslationZ="12dp"/>  
  
<!-- normal = 56dp, mini = 40dp-->
```

TabLayout

CATEGORY 1

CATEGORY 2

CATEGORY 3



Fougurus

```
.../src/MainActivity.java
```

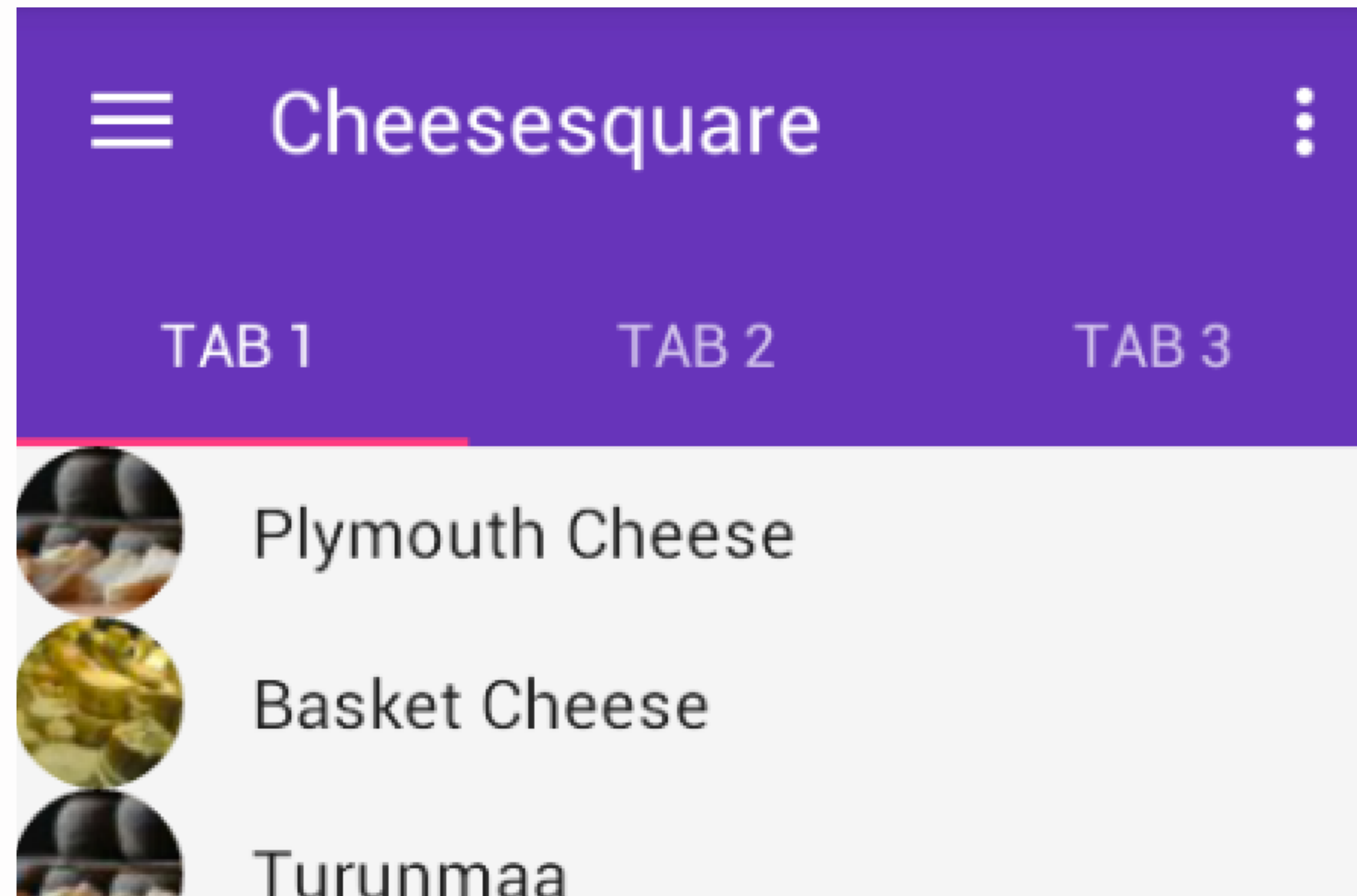
```
TabLayout tabLayout = (TabLayout) findViewById(R.id.tabs);  
tabLayout.addTab(tabLayout.newTab().setText("Tab 1"));  
tabLayout.addTab(tabLayout.newTab().setText("Tab 2"));
```

```
// Você também pode criar as tabs passando um ViewPager (já com adapter)  
tabLayout.setupWithViewPager(viewPager);
```

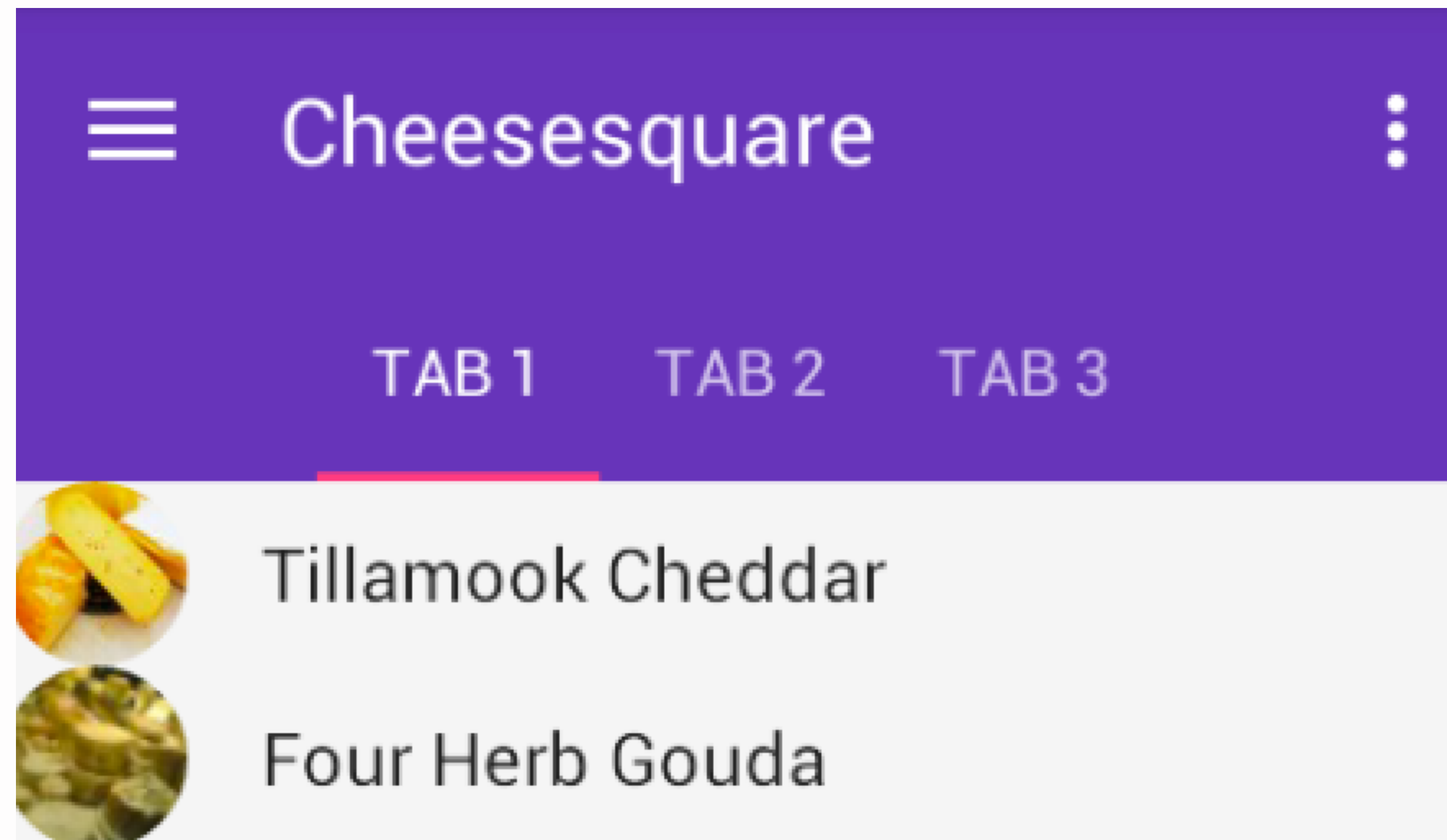

.../res/layout/activity_main.xml

```
<android.support.design.widget.TabLayout
    android:id="@+id/tabs"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:tabMode="fixed"
    app:tabGravity="center"/>
```

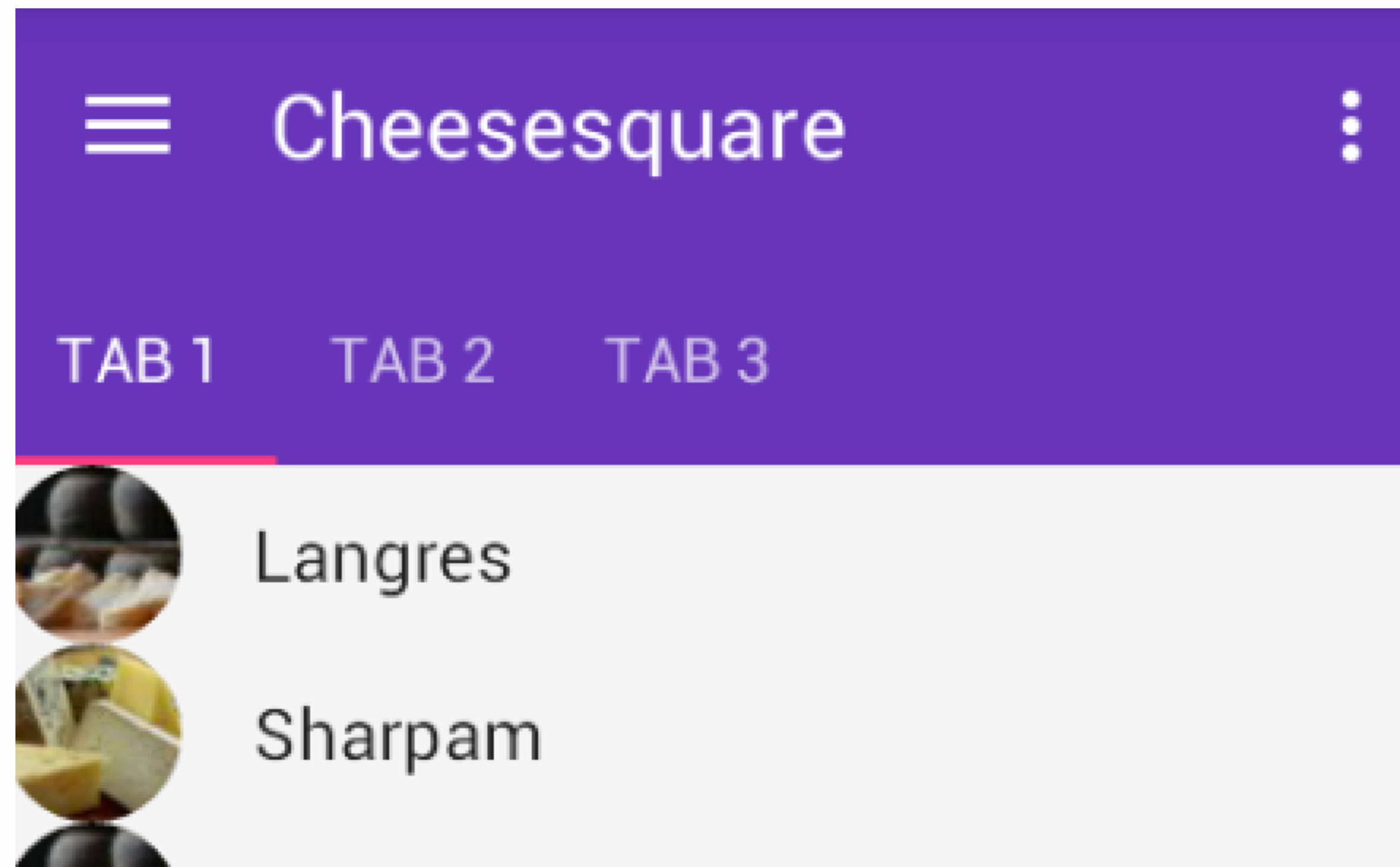
```
<!-- tabMode = fixed ou scrollable -->
<!-- tabGravity = center ou fill -->
```



tabMode **fixed** + tabGravity **fill**



tabMode **fixed** + tabGravity **center**



tabMode **scrollable**

Snackbar



Ulloa



Derick Fontina

Here's a Snackbar

ACTION



.../src/MainActivity.java

```
Snackbar.make(view, "Mensagem do Snackbar", Snackbar.LENGTH_LONG)
    .setAction("Action", new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            // Ação de clique da action
        }
    }).show(); // Assim como o Toast, não esqueça do .show()!
```

TextInputLayout

Username

Resdf

Password

.../res/your_layout.java

```
<TextInputLayout
    android:id="@+id/textInputLayout"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">

    <EditText
        android:id="@+id/name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Name"/>
</TextInputLayout>
```

Demo

Links e Contato



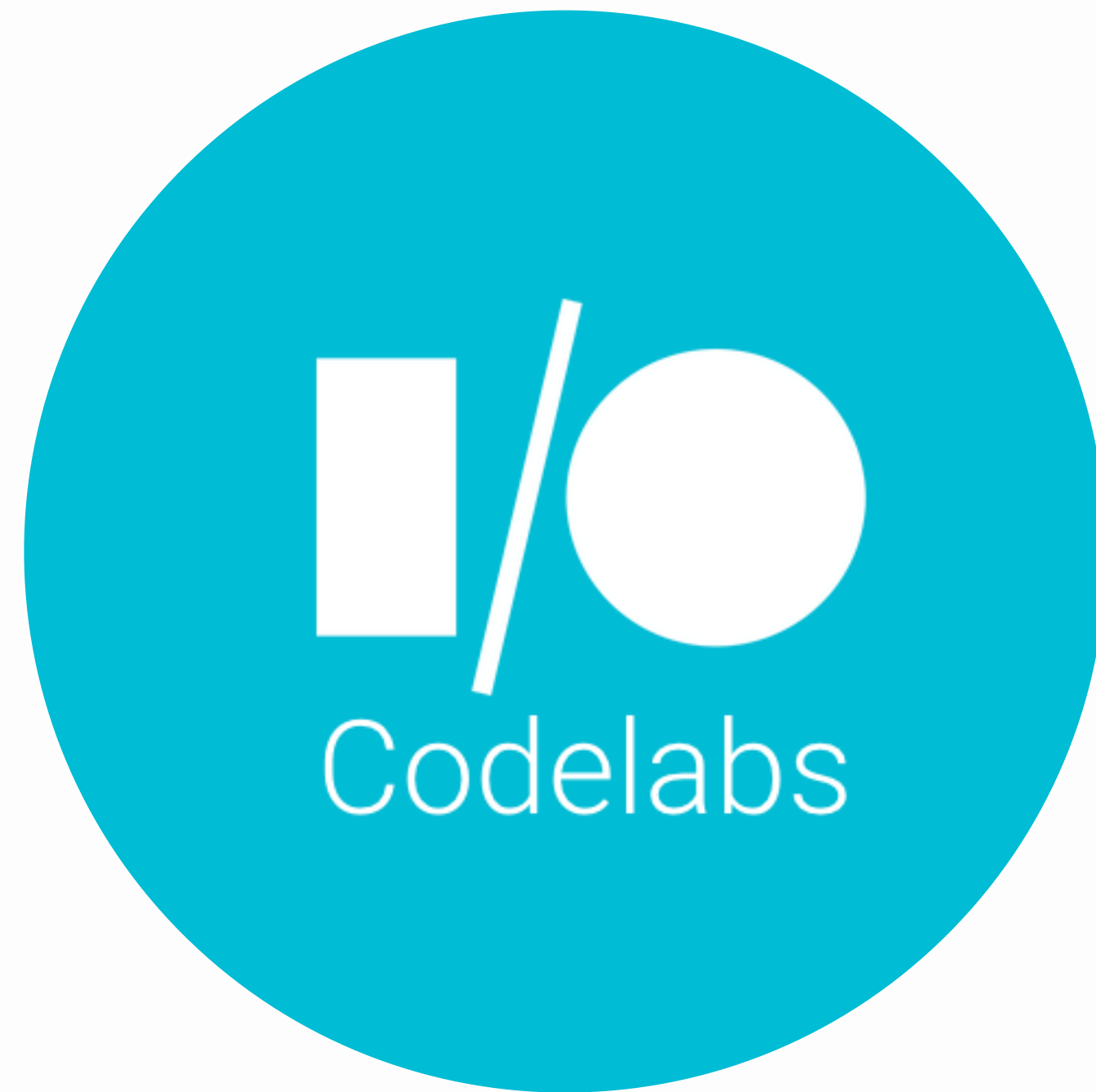
Cheesesquare

github.com/chrisbanes/cheesesquare



Android M Developer Preview

developer.android.com/preview



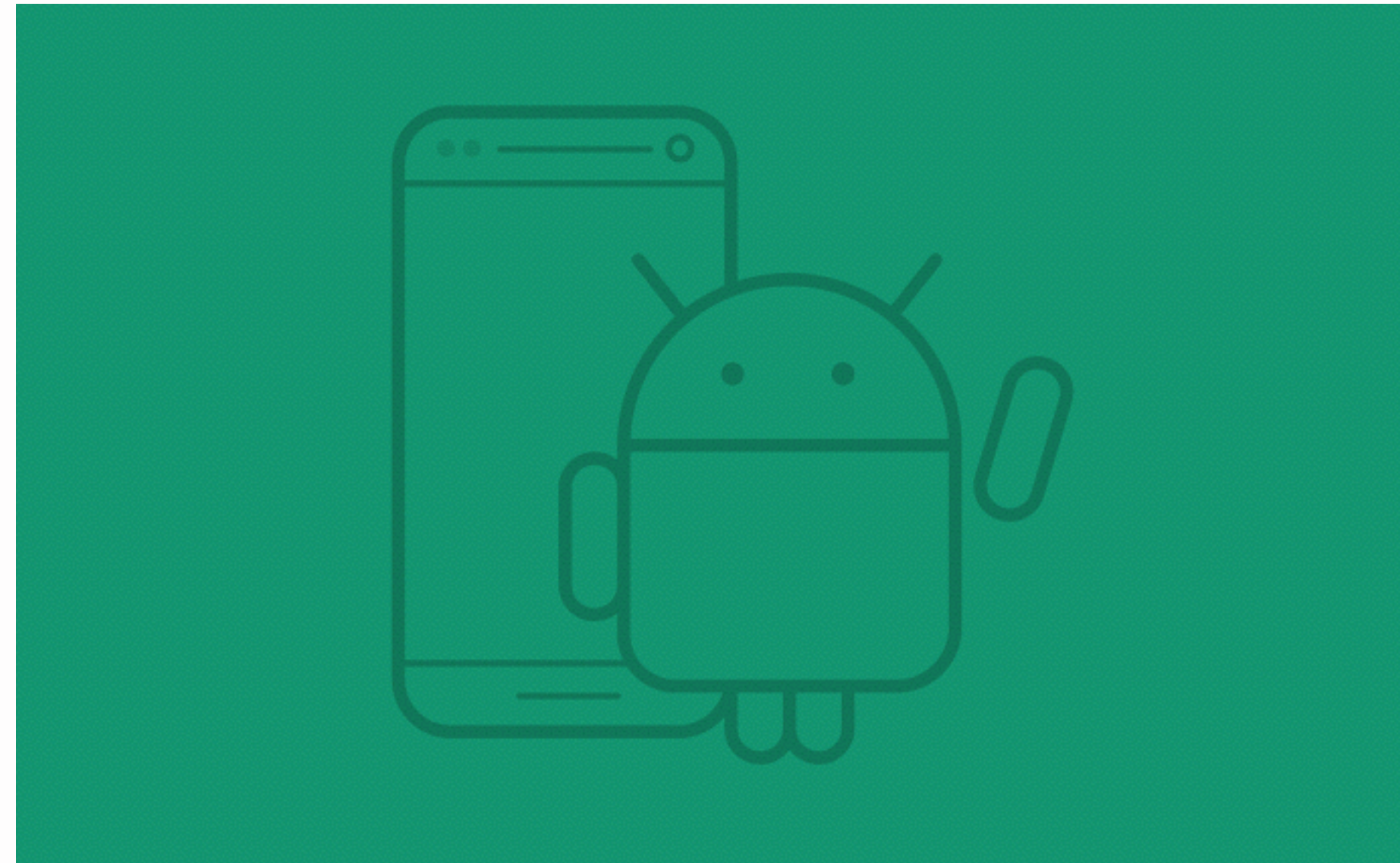
I/O 15 Codelabs

io2015codelabs.appspot.com



Slack - Android Dev BR

androiddevbr.herokuapp.com



Android Developer Nanodegree - Udacity

goo.gl/CcBmis

Contato

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Muito obrigado!