# Material Design 学习笔记

2018年01月25日 上午09:19

#### **ToolBar**

1,为 AppTheme 指定不带 ActionBar 的主题:

```
📭 арр
                                          package="com. wnavy. navigationview">
   ▶ build
     libs
                                          application
   ▼ I src
                                             android: allowBackup="true"
     androidTest
                                             android:icon="@mipmap/ic_launcher"
                               8
                                             android:label="NavigationView
      ▼ 🗎 main
                                             android:roundIcon="@mipmap/ic_launcher_round"
        ▶ java
                                             android:supportsRtl="true"
                                            android: theme="@style/AppTheme">
          🔯 AndroidManifest.xml
                                             <activity android:name=".MainActivity">
        test
                               13
     gitignore ...
                                                   <action android:name="android.intent.action.MAIN" />
                               14
     app.iml

    build.gradle

                                                   <category android:name="android.intent.category.LAUNCHER" />
      proguard-rules.pro
                                                </intent-filter>
 build
                               18
                                             </activity>
                                          </application>
gradle
                               19
  res > alues > styles.xml
          🚚 styles.xml 🗵
oid_First
          Edit all themes in the project in the theme editor.
                   resources style
                   <resources>
          2
                        <!-- Base application theme. --> "Theme. AppCompat. Light. NoActionBar"
                        <style name="AppTheme" parent="Theme.AppComput.Light.BarkActionBar">
                            <!-- Customize your theme here. -->
                            <item name="colorPrimary">@color/colorPrimary</item>
                            <item name="colorPrimaryDark">@color/colorPrimaryDark
          7
                            <item name="colorAccent">@color/colorAccent</item>
                        </style>
est.xml
                   -√resources>
```

#### 2,使用 ToolBar 代替 ActionBar:

```
<!--main_activity.xml-->
<!xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

<android.support.v7.widget.Toolbar
    android:id="@+id/toolbar"

    android:layout_width="match_parent"</a>
```

```
android:layout_height="wrap_content"
android:background="?attr/colorPrimary"
android:minHeight="?attr/actionBarSize"
android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
app:popupTheme="@style/ThemeOverlay.AppCompat.Light" />
</FrameLayout>
```

```
public class MainActivity extends AppCompatActivity{
    Toolbar toolBar;

@Override
    protected void onCreate(Bundle savedInstanceState)
{
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        toolBar = (Toolbar) findViewById(R.id.toolbar);
        setSupportActionBar(toolBar);
    }
}
```

```
AndroidManifest.xml ×
         <?xml version="1.0" encoding="utf-8"?>
        manifest xmlns: android="http://schemas. android. com/apk/res/android"
3
            package="com. wnavy. material design_12_01">
5
            application
                android: allowBackup="true"
6
                android:icon="@mipmap/ic_launcher"
7
                android: label="MaterialDesign_12_01"
8
                android:roundIcon="@mipmap/ic_launcher_round"
9
                android: supportsRtl="true"
                android: theme="@style/AppTheme">
12
                <activity</a>
                   android: name=". MainActivity"
                   android:label="MaterialDesign"><!一修改IoolBar标题栏-->
14
                    <intent-filter>
15
                       <action android:name="android.intent.action.MAIN" />
16
17
                       <category android:name="android.intent.category.LAUNCHER" />
18
                    </intent-filter>
19
                </activity>
20
            (/application>
21
22
23
        </manifest>
```

### DrawerLayout(滑动菜单)

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v4.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   android:id="@+id/drawer_layout"
   android:layout width="match parent"
   android:layout_height="match_parent">
   <!--DrawerLayout 包含两个直接子控件(Layout)-->
   <!--第一个用于主屏幕显示的内容,其中包含 ToolBar 和一个 Button,一个 TextView-->
   <!--Content-->
   <LinearLayout</pre>
       android:layout_width="match_parent"
       android:layout height="match parent"
       android:orientation="vertical">
       <android.support.v7.widget.Toolbar</pre>
           android:id="@+id/toolbar"
           android:layout width="match parent"
           android:layout_height="wrap_content"
           android:background="?attr/colorPrimary"
           android:minHeight="?attr/actionBarSize"
           android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
           app:popupTheme="@style/ThemeOverlay.AppCompat.Light" />
       <Button
           android:layout_width="match_parent"
           android:layout height="wrap content"
           android:text="@string/app_name" />
       <TextView
           android:layout width="match parent"
           android:layout_height="wrap_content"
           android:text="@string/app_name"
           android:textSize="30sp" />
   </LinearLayout>
   <!--第二个用于滑动菜单中显示的内容,这里用一个 TextView 代替-->
   <!--滑动菜单中的 layout gravity 属性必须指定,用于告诉 DrawerLayout 滑动菜单从屏幕边缘滑出的方向
   start 表示会根据系统语言判断,如果系统语言是从左往右,则滑动菜单位于屏幕左侧,会从左侧滑出-->
   <!--Menu-->
   <TextView
       android:layout_width="match_parent"
       android:layout_height="match_parent"
       android:layout_gravity="start"
       android:background="#fffffff"
```

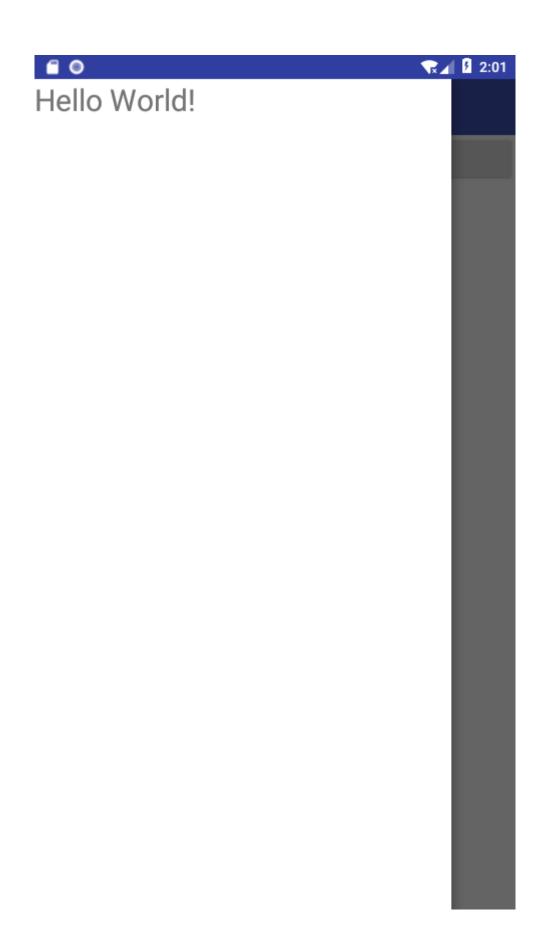
```
android:text="Hello World!"
android:textSize="30sp" />
</android.support.v4.widget.DrawerLayout>
```

```
public class MainActivity extends AppCompatActivity {
   private Toolbar toolBar;
   private DrawerLayout drawerLayout;
   private ActionBarDrawerToggle arrowBtn;
   @Override
   protected void onCreate(Bundle savedInstanceState)
   {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       toolBar = (Toolbar) findViewById(R.id.toolbar);
       drawerLayout = (DrawerLayout) findViewById(R.id.drawer_layout);
       setSupportActionBar(toolBar);
       //得到 ActionBar 的实例,其实这个 ActionBar 是由 ToolBar 实现的
       ActionBar actionBar = getSupportActionBar();
       if (actionBar != null)
           actionBar.setHomeButtonEnabled(true); //设置返回键可用
           actionBar.setDisplayHomeAsUpEnabled(true);//在 ToolBar 左侧显示一个导航按钮
           //给导航按钮设置图标,默认是一个返回箭头
           //actionBar.setHomeAsUpIndicator(android.R.drawable.ic_menu_view);
       }
       arrowBtn = new ActionBarDrawerToggle(MainActivity.this, drawerLayout, toolBar,
           R.string.drawer_toggle_open, R.string.drawer_toggle_close);
       arrowBtn.syncState();//设置导航按钮显示为三横杠
       //添加菜单拖动监听事件 根据菜单的拖动距离,折算成导航按钮旋转角度
       drawerLayout.addDrawerListener(arrowBtn);
   }
   @Override
   public boolean onOptionsItemSelected(MenuItem item)
       switch (item.getItemId())
       //处理导航按钮的点击事件,点击导航按钮,滑出滑动菜单
       case android.R.id.home://导航按钮的 ID 永远是 android.R.id.home
           drawerLayout.openDrawer(GravityCompat.START);
```

```
break;
default:
    break;
}
return super.onOptionsItemSelected(item);
}
```



MaterialDesign\_12\_01



## 另外一种布局方式:

```
android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:orientation="vertical">
   <!--DrawerLayout 不再包含 Toolbar-->
   <include layout="@layout/layout_toolbar" />
   <include layout="@layout/layout_drawer" />
</LinearLayout>
<!--把 Toolbar 和 DrawerLayout 独立出来,方便重用-->
<!---->
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.Toolbar xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   android:id="@+id/toolbar"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:background="?attr/colorPrimary"
   android:minHeight="?attr/actionBarSize"
   android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
   app:popupTheme="@style/ThemeOverlay.AppCompat.Light">
</android.support.v7.widget.Toolbar>
<?xml version="1.0" encoding="utf-8"?>
<android.support.v4.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android:id="@+id/drawer layout"
   android:layout_width="match_parent"
   android:layout_height="match_parent">
   <!--Content-->
   <LinearLayout</pre>
       android:id="@+id/ll_content"
       android:layout_width="match_parent"
       android:layout_height="match_parent"
       android:orientation="vertical">
       <Button
          android:layout width="match parent"
          android:layout_height="wrap_content"
          android:text="@string/app_name" />
       <TextView
          android:layout_width="match_parent"
          android:layout_height="wrap_content"
```



### NavigationView:

1,NavigationView 是 Design Support 库中提供的控件,所以需要添加 Design Support 库的引用:

```
implementation 'com.android.support:design:26.1.0'//design support 库 implementation 'de.hdodenhof:circleimageview:2.2.0'//用于图片圆形化的第三方库
```

```
▼ 📜 12_03 E:\my_program\Android_First
                                           implementation fileTree(dir: 'libs', include: ['*.jar'])
  .gradle
                                           implementation 'com. android. support: appcompat=v7:26.1.0'
   🕨 🖿 .idea
                                           implementation 'com. android. support. constraint:constraint-layout:1.0.2'
   🔻 📭 app
                                           implementation 'com. android. support: design: 26.1.0'
      build
                                         implementation 'de.hdodenhof:circleimageview:2.2.0'
        libs
                                           implementation 'com. android. support:recyclerview-v7:26.1.0'
      ▶ src
                                          implementation 'com. android. support:cardview-v7:26.1.0'
                                          implementation 'com. github. bumptech. glide: glide: 3.8.0'
         gitignore .gitignore
                                           testImplementation 'junit: junit: 4.12'
        📑 app.iml
                                           androidTestImplementation 'com. android. support. test:runner:1.0.1'
                                           androidTestImplementation 'com, android, support, test, espresso; espresso-core; 3.0.1'
         proguard-rules.pro
```

2,为 NavigationView 准备两个布局文件:menu.xml(用于显示菜单)和 header.xml(用于显示头

像)

```
<!---->
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
   <group android:checkableBehavior="single">
       <item
           android:id="@+id/menu_call"
           android:icon="@drawable/ic menu call"
           android:title="@string/menu_call_title" />
       <item
           android:id="@+id/menu_friends"
           android:icon="@drawable/ic_menu_friends"
           android:title="@string/menu friends title" />
       <item
           android:id="@+id/menu_address"
           android:icon="@drawable/ic_menu_home"
           android:title="@string/menu_address_title" />
       <item
           android:id="@+id/menu_photo"
           android:icon="@drawable/ic_menu_photo"
           android:title="@string/menu_photo_title" />
   </group>
</menu>
```

```
android:background="?attr/colorPrimary"
   android:gravity="center"
   android:orientation="vertical">
   <!--顶部显示一个圆形头像-->
   <de.hdodenhof.circleimageview.CircleImageView
        android:id="@+id/header_image"
        android:layout_width="100dp"
        android:layout_height="100dp"
        android:src="@drawable/ic_header_photo" />
    <TextView
        android:id="@+id/header usrname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/header_user_name"
        android:textAlignment="center"
        android:textColor="@color/colorTextPrimary"
        android:textSize="@dimen/textSizePrimary" />
   <TextView
        android:id="@+id/header_email"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/header_email"
        android:textAlignment="center"
        android:textColor="@color/colorTextPrimary"
        android:textSize="@dimen/textSizePrimary" />
</LinearLayout>
```

#### 3,将 DrawerLayout 中原来的菜单(TextView)替换为 NavigationView:

```
android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
app:popupTheme="@style/Base.ThemeOverlay.AppCompat.Light" />

</FrameLayout>

<!--将 DrawerLayout 中原来的菜单(TextView)替换为 NavigationView-->

<android.support.design.widget.NavigationView
android:id="@+id/navigation_view"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_height="match_parent"
android:layout_gravity="start"
app:headerLayout="@layout/layout_header"<!--为 NavigationView 指定 header--->
app:menu="@menu/layout_menu" /><!--为 NavigationView 指定菜单项--->

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

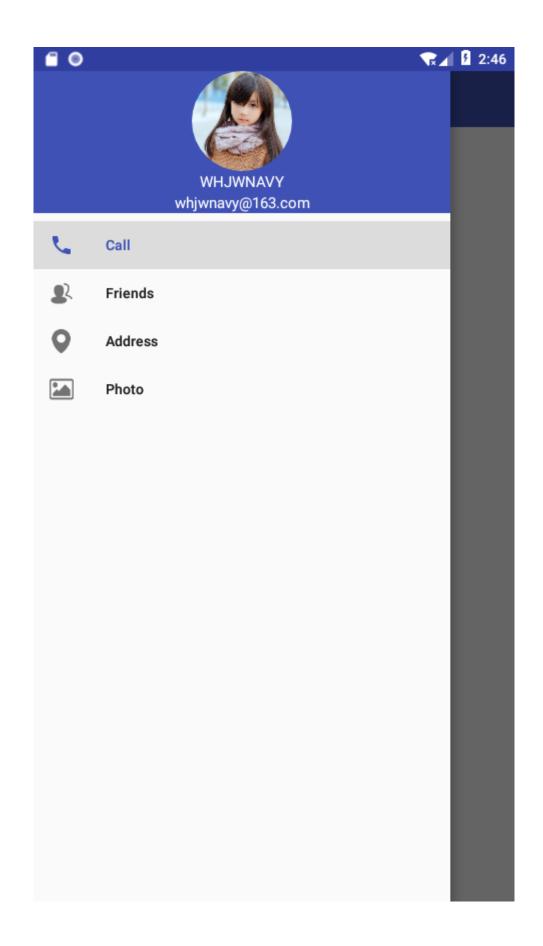
```
public class MainActivity extends AppCompatActivity{
   Toolbar toolbar;
   DrawerLayout drawerLayout;
   NavigationView navigationView;
   ActionBarDrawerToggle actionBarDrawerToggle;
   @Override
   protected void onCreate(Bundle savedInstanceState)
   {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       drawerLayout = (DrawerLayout) findViewById(R.id.drawer_layout);
       toolbar = (Toolbar) findViewById(R.id.tool_bar);
       navigationView = (NavigationView) findViewById(R.id.navigation_view);
       MainActivity.this.setSupportActionBar(toolbar);
       ActionBar actionBar = MainActivity.this.getSupportActionBar();
       if (actionBar != null)
       {
           actionBar.setHomeButtonEnabled(true);//设置返回键可用
           actionBar.setDisplayHomeAsUpEnabled(true);//在 ToolBar 左侧显示一个导航按钮
       }
       navigationView.setCheckedItem(R.id.menu_call);//设置 navigationView 的默认选中项目
       //为 navigationView 的菜单项目(menu)添加点击事件
       navigationView.setNavigationItemSelectedListener(
           new NavigationView.OnNavigationItemSelectedListener() {
               @Override
               public boolean onNavigationItemSelected(@NonNull MenuItem item)
```

```
//这里仅用于点击菜单项之后关闭滑动菜单
drawerLayout.closeDrawers();
return true;
}
});

actionBarDrawerToggle = new ActionBarDrawerToggle(MainActivity.this,
drawerLayout, toolbar, R.string.drawer_toggle_open, R.string.drawer_toggle_close);

actionBarDrawerToggle.syncState();//设置导航按钮显示为三横杠

//添加菜单拖动监听事件,根据菜单的拖动距离,折算成导航按钮旋转角度
drawerLayout.addDrawerListener(actionBarDrawerToggle);
}
```



## ${\bf Coordinator Layout, Floating Action Button, Snackbar}$

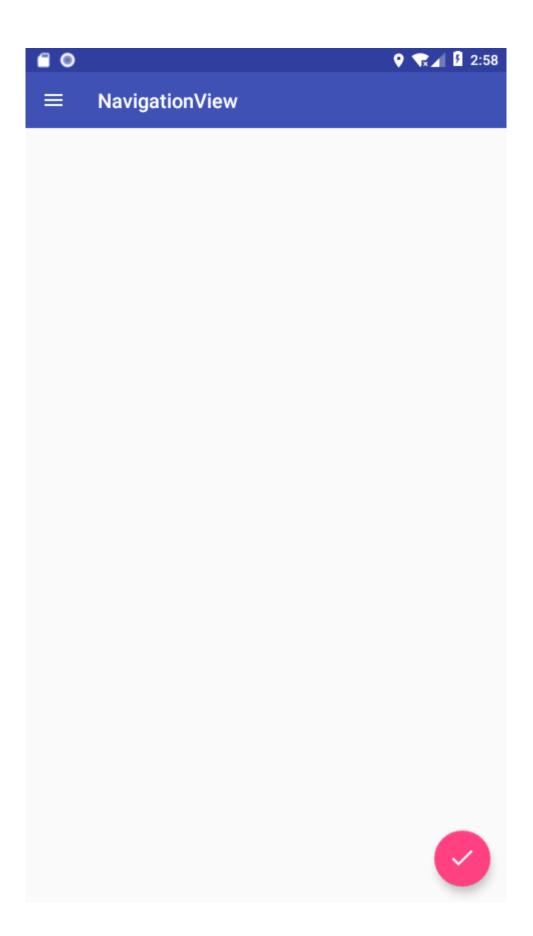
FloatingActionButton:悬浮按钮

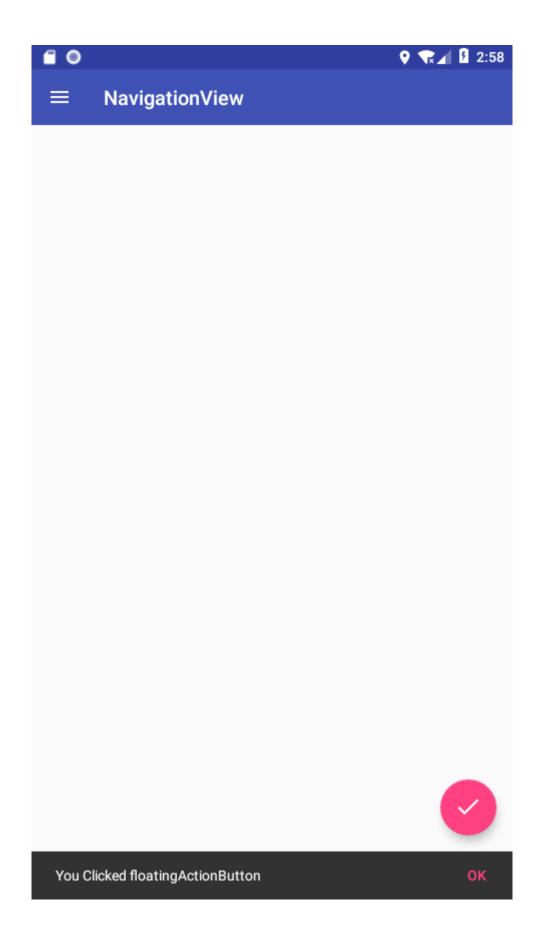
Snackbar:可交互提示

CoordinatorLayout:Snackbar 弹出时会遮挡住悬浮按钮,利用 CoordinatorLayout 布局可以解决这个问题,CoordinatorLayout 会监听到 Snackbar 弹出事件,然后自动将悬浮按钮向上偏移,以确保不会被 Snackbar 遮挡.

```
<!---->
<android.support.v4.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   xmlns:app="http://schemas.android.com/apk/res-auto"
   android:id="@+id/drawer_layout"
   android:layout width="match parent"
   android:layout_height="match_parent">
   <!--将原来的布局替换为 CoordinatorLayout 即可-->
    <android.support.design.widget.CoordinatorLayout</pre>
       android:layout_width="match_parent"
       android:layout_height="match_parent">
       <android.support.v7.widget.Toolbar</pre>
           android:id="@+id/tool bar"
           android:layout width="match parent"
           android:layout_height="?attr/actionBarSize"
           android:background="?attr/colorPrimary"
           android:minHeight="?attr/actionBarSize"
           android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
           app:popupTheme="@style/Base.ThemeOverlay.AppCompat.Light" />
       <!--悬浮按钮-->
       <android.support.design.widget.FloatingActionButton</pre>
           android:id="@+id/float_action_button"
           android:layout_width="wrap_content"
           android:layout_height="wrap_content"
           android:layout_gravity="bottom|end"
           android:layout_margin="16dp"
           android:clickable="true"
           android:elevation="10dp"
           android:focusable="true"
           android:src="@drawable/ic_cab_done" />
    </android.support.design.widget.CoordinatorLayout>
    <android.support.design.widget.NavigationView</pre>
       android:id="@+id/navigation_view"
       android:layout width="match parent"
       android:layout_height="match_parent"
       android:layout_gravity="start"
       app:headerLayout="@layout/layout_header"
       app:menu="@menu/layout menu" />
```

```
public class MainActivity extends AppCompatActivity {
    /* ····· */
    FloatingActionButton floatingActionButton;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
       /* ····· */
       floatingActionButton = (FloatingActionButton) findViewById(R.id.float_action_button);
       floatingActionButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
               /*Toast.makeText(MainActivity.this, "You Clicked floatingActionButton", Toast.LENGTH_SHO
RT).show();*/
               //创建可交互提示框 Snackbar,并为其绑定点击交互事件
               Snackbar.make(v, "You Clicked floatingActionButton", Snackbar.LENGTH_SHORT).
                       setAction("Ok", new View.OnClickListener() {
                           @Override
                           public void onClick(View v) {
                               Toast.makeText(MainActivity.this, "You Clicked Snackbar OK", Toast.LENGT
H_SHORT).show();
                           }
                       }).show();
            }
       });
       /* ····· */
    }
}
```





## CardView(卡片式布局)

**示例:**利用 RecyclerView 展示图片,RecyclerView 的子项使用 CardView 布局.图片使用 Glide 加载.

#### 1,添加依赖库:

```
implementation 'com.android.support:recyclerview-v7:26.1.0'
implementation 'com.android.support:cardview-v7:26.1.0'
implementation 'com.github.bumptech.glide:glide:3.8.0'
```

#### 2,添加 RecvclerView 布局:

```
<!--main_activity.xml-->
<android.support.v4.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/drawer_layout"
    android:layout width="match parent"
    android:layout_height="match_parent">
    <android.support.design.widget.CoordinatorLayout</pre>
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <android.support.v7.widget.Toolbar</pre>
            ...../>
        <android.support.v7.widget.RecyclerView</pre>
            android:id="@+id/recycle_view"
            android:layout_width="match_parent"
            android:layout_height="match_parent" />
        <android.support.design.widget.FloatingActionButton</pre>
            ...../>
    </android.support.design.widget.CoordinatorLayout>
    <android.support.design.widget.NavigationView</pre>
        ...../>
</android.support.v4.widget.DrawerLayout>
```

#### 3,新建用于展示图片的类和布局文件:

```
public class Girl {
    private String name;
    private int imageId;

public Girl(String name, int imageId) {
        this.imageId = imageId;
        this.name = name;
    }
```

```
public String getName() {
    return this.name;
}

public int getImageId() {
    return this.imageId;
}
```

```
<!--girl layout.xml-->
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout_margin="5dp"
    app:cardCornerRadius="5dp">
    <LinearLayout</pre>
        android:layout_width="match_parent"
        android:layout height="wrap content"
        android:orientation="vertical">
        <ImageView</pre>
            android:id="@+id/girl_image"
            android:layout width="match parent"
            android:layout_height="100dp"
            android:scaleType="centerCrop" />
        <TextView
            android:id="@+id/girl_name"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_horizontal"
            android:layout_margin="5dp"
            android:textSize="@dimen/textSizePrimary" />
    </LinearLayout>
</android.support.v7.widget.CardView>
```

#### 4.创建自定义适配器:

```
public class GirlAdapter extends RecyclerView.Adapter<GirlAdapter.ViewHolder> {
    private Context context;
    private List<Girl> girlList;

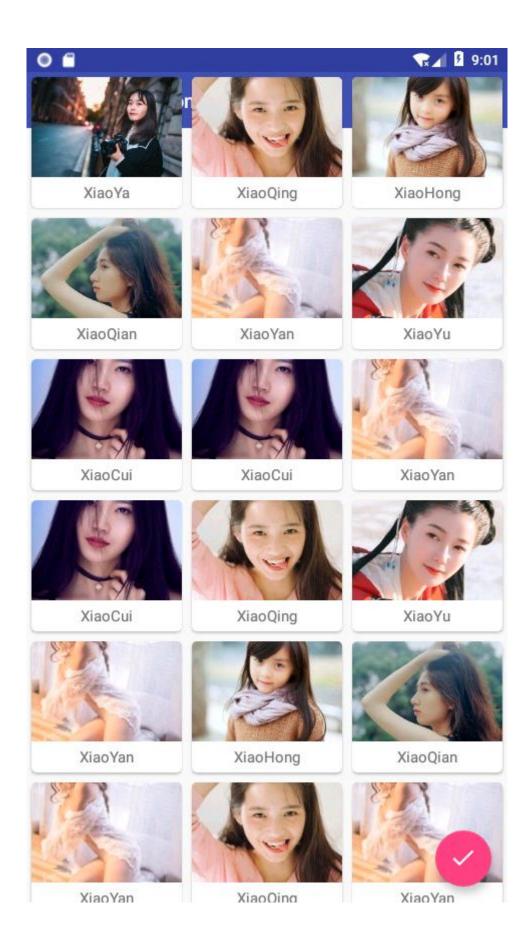
static class ViewHolder extends RecyclerView.ViewHolder {
        CardView cardView;
}
```

```
ImageView imageView;
        TextView textView;
        private ViewHolder(View itemView) {
            super(itemView);
            cardView = (CardView) itemView;
            imageView = (ImageView) itemView.findViewById(R.id.girl_image);
            textView = (TextView) itemView.findViewById(R.id.girl_name);
        }
    }
    public GirlAdapter(List<Girl> girlList) {
        this.girlList = girlList;
    }
    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
        if (this.context == null) {
            this.context = parent.getContext();
        }
        View view = LayoutInflater.from(this.context).inflate(R.layout_layout_girl, parent, false);
        return new ViewHolder(view);
    }
    @Override
    public void onBindViewHolder(ViewHolder holder, int position) {
        Girl girl = this.girlList.get(position);
        holder.textView.setText(girl.getName());
        //利用 Glide 加载图片到 ImageView
        Glide.with(this.context).load(girl.getImageId()).into(holder.imageView);
    }
    @Override
    public int getItemCount() {
        return this.girlList.size();
}
```

#### 5,修改 MainActivity 代码逻辑:

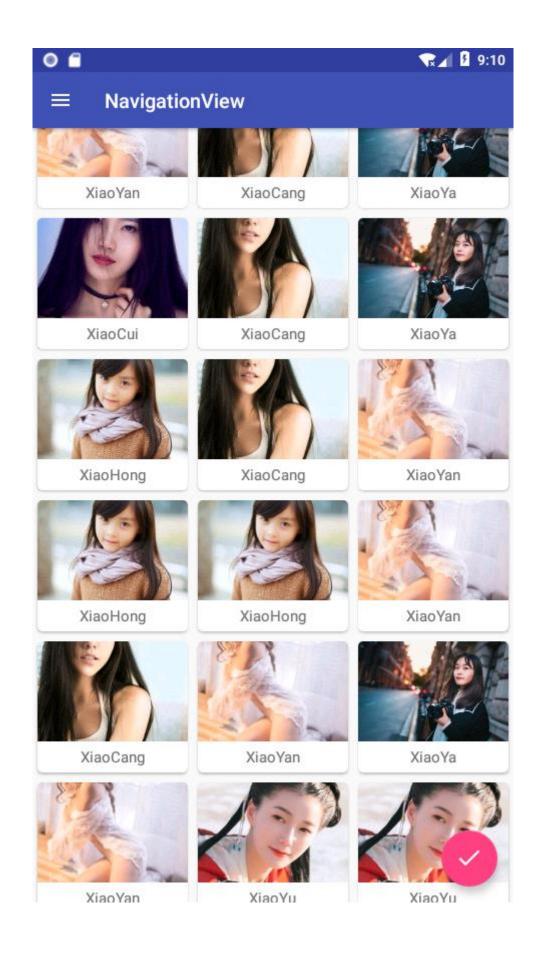
```
new Girl("XiaoQing", R.drawable.image_girl_2),
        new Girl("XiaoYu", R.drawable.image_girl_3),
        new Girl("XiaoCui", R.drawable.image_girl_4),
        new Girl("XiaoCang", R.drawable.image_girl_5),
        new Girl("XiaoYa", R.drawable.image_girl_6),
        new Girl("XiaoQian", R.drawable.image_girl_7),
        new Girl("XiaoYan", R.drawable.image_girl_8),
};
private List<Girl> girlList = new ArrayList<>();
private GirlAdapter girlAdapter;
private void initGirlList() {
    girlList.clear();
    Random random = new Random();
   int index = 0;
   for (int i = 0; i < 300; i++) {
        index = random.nextInt(girlArry.length);
        girlList.add(girlArry[index]);
    }
}
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
    /*....*/
   recyclerView = (RecyclerView) findViewById(R.id.recycle_view);
   initGirlList();//初始化图片列表
    /*....*/
    gridLayoutManager = new GridLayoutManager(MainActivity.this, 3);
    recyclerView.setLayoutManager(gridLayoutManager);
    girlAdapter = new GirlAdapter(girlList);
    recyclerView.setAdapter(girlAdapter);
}
```

}



## **AppbarLayout**

```
<android.support.design.widget.CoordinatorLayout</pre>
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <!--为了解决 RecyclerView 遮挡住 Toolbar 的问题,只要把 TooBar 放在 AppBarLayout 布局中即可-->
        <android.support.design.widget.AppBarLayout</pre>
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <android.support.v7.widget.Toolbar</pre>
                android:id="@+id/tool_bar"
                android:layout_width="match_parent"
                android:layout_height="?attr/actionBarSize"
                android:background="?attr/colorPrimary"
                android:minHeight="?attr/actionBarSize"
                android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
                <!--给 ToolBar 添加对滚动事件的处理属性,用于滚动列表时自动显示或隐藏 ToolBar-->
                app:layout_scrollFlags="scroll|enterAlways|snap"
                app:popupTheme="@style/Base.ThemeOverlay.AppCompat.Light" />
        </android.support.design.widget.AppBarLayout>
        <android.support.v7.widget.RecyclerView</pre>
            android:id="@+id/recycle_view"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            app:layout_behavior="@string/appbar_scrolling_view_behavior"/>
        <android.support.design.widget.FloatingActionButton</pre>
            ...../>
    </android.support.design.widget.CoordinatorLayout>
   <android.support.design.widget.NavigationView</pre>
        ...../>
</android.support.v4.widget.DrawerLayout>
```





## SwipeRefreshLayout(下拉刷新)

把需要实现下拉刷新的控件放在 SwipeRefreshLayout 布局中即可. 1,修改布局文件:

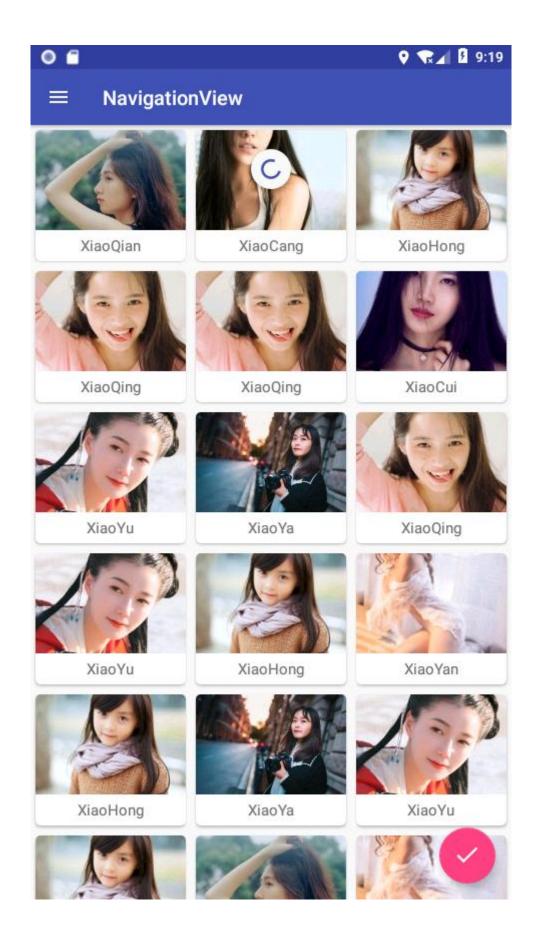
```
.....>
    <android.support.design.widget.CoordinatorLayout</pre>
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <!--为了解决 RecyclerView 遮挡住 Toolbar 的问题,只要把 TooBar 放在 AppBarLayout 布局中即可-->
        <android.support.design.widget.AppBarLayout</pre>
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <android.support.v7.widget.Toolbar</pre>
                ...../>
        </android.support.design.widget.AppBarLayout>
        <android.support.v4.widget.SwipeRefreshLayout</pre>
            android:id="@+id/swip_refresh"
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            app:layout_behavior="@string/appbar_scrolling_view_behavior">
            <android.support.v7.widget.RecyclerView</pre>
                android:id="@+id/recycle_view"
                android:layout_width="match_parent"
                android:layout_height="match_parent" />
        </android.support.v4.widget.SwipeRefreshLayout>
        <android.support.design.widget.FloatingActionButton</pre>
            ..../>
    </android.support.design.widget.CoordinatorLayout>
    <android.support.design.widget.NavigationView</pre>
       ..../>
</android.support.v4.widget.DrawerLayout>
```

### 2,修改 MainActivity 代码:

```
public class MainActivity extends AppCompatActivity {
    /* ..... */
    private SwipeRefreshLayout swipeRefreshLayout;
    /* ..... */
    private void refreshGirlList() {
```

```
new Thread(new Runnable() {
       @Override
       public void run() {
           try {
               Thread.sleep(3000);
           } catch (InterruptedException e) {
               e.printStackTrace();
           }
           runOnUiThread(new Runnable() {
               @Override
               public void run() {
                   initGirlList();
                   //通知数据发生了变化
                   girlAdapter.notifyDataSetChanged();
                   //设置刷新事件结束,隐藏进度条
                   swipeRefreshLayout.setRefreshing(false);
               }
           });
       }
   }).start();
}
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    /* ····· */
   swipeRefreshLayout = (SwipeRefreshLayout) findViewById(R.id.swip_refresh);
    //设置下拉刷新进度条的颜色
    swipeRefreshLayout.setColorSchemeResources(R.color.colorPrimary);
    swipeRefreshLayout.setOnRefreshListener(new SwipeRefreshLayout.OnRefreshListener() {
       @Override
       public void onRefresh() {
           refreshGirlList();
       }
   });
}
```

}



## CollapsingToolbarLayout(可折叠式标题栏)

CollapsingToolbarLayout 是一个作用于 ToolBar 之上的布局,它可以让 ToolBar 的效果更丰富,不仅仅是展示一个标题栏,而且能够实现非常华丽的效果(高级版标题栏).但是

CollapsingToolbarLayout 布局不能独立存在,只能作为 AppBarLayout 的直接子布局,而 AppBarLayout 又必须是 CoordinatorLayout 的子布局,如下:

```
<android.support.design.widget.CoordinatorLayout
.....>

<android.support.design.widget.AppBarLayout
.....>

<android.support.design.widget.CollapsingToolbarLayout
.....>
<android.support.v7.widget.Toolbar
...../>
</android.support.design.widget.CollapsingToolbarLayout>
</android.support.design.widget.AppBarLayout>
</android.support.design.widget.AppBarLayout>
</android.support.design.widget.CoordinatorLayout></android.support.design.widget.CoordinatorLayout></android.support.design.widget.CoordinatorLayout>
```

示例:在上例中,继续实现一个点击卡片进入图片详情的页面,包含高级版标题栏.

1,新建图片详情页布局文件 girl\_Activity.xml,用 CollapsingToolbarLayout 实现详情页标题布局:

```
<!--girl_Activity.xml-->
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout xmlns:android="http://schemas.android.com/apk/res/and
roid"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   android:layout_width="match_parent"
   android:layout height="match parent">
   <!--图片详情页标题栏-->
   <android.support.design.widget.AppBarLayout</pre>
        android:id="@+id/girl_app_bar"
        android:layout_width="match_parent"
        android:layout height="250dp"> <!--给 AppBarLayout 指定一个合适的高度-->
        <!--用 CollapsingToolbarLayout 作为 TooBar 的父布局-->
        <android.support.design.widget.CollapsingToolbarLayout</pre>
            android:id="@+id/girl_collapsing_toolbar"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
```

```
android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"<!--把原来作用于 TooBar 的主题属性
移到父布局中来-->
           <mark>app:contentScrim="?attr/colorPrimary"<!--</mark>用于指定 CollapsingToolbarLayout 在趋于折叠状态时的背景
色,
                                                  CollapsingToolbarLayout 折叠之后就是一个普通的 ToolBar-->
           <mark>app:layout_scrol1Flags="scrol1|exitUnti1Collapsed</mark>"><!--把原来作用于 TooBar 的随着滑动自动移出移
入的属性移到父布局中来,
                                                               exitUntilCollapsed 表示当
CollapsingToolbarLayout 随着滚动完成
                                                               折叠之后就保留在屏幕上,不再移除屏幕-->
           <!--定义标题栏的具体内容, 高级版的标题栏是由普通的 ToolBar 加上图片组合而成-->
           <ImageView
               android:id="@+id/girl_image_view"
               android:layout_width="match_parent"
               android:layout_height="match_parent"
               android:scaleType="centerCrop"<!─图片缩放模式─>
               <mark>app:layout_collapseMode</mark>="<mark>parallax</mark>" /><!一指定控件在 CollapsingToolbarLayout 折叠过程中的折叠状
态, parallax 表示
                                                     ImageView 会在折叠过程中产生一定的错位偏移-->
           <android.support.v7.widget.Toolbar</pre>
               android:id="@+id/girl_tool_bar"
               android:layout width="match parent"
               android:layout_height="?attr/actionBarSize"
               <mark>app:layout_collapseMode="pin</mark>" /><!一指定控件在 CollapsingToolbarLayout 折叠过程中的折叠状
态, pin 表示 ToolBar 在
                                                 折叠过程中位置始终保持不变-->
       </android.support.design.widget.CollapsingToolbarLayout>
   </android.support.design.widget.AppBarLayout>
</android.support.design.widget.CoordinatorLayout>
   2,继续实现图片内容详情部分:
```

```
</android.support.design.widget.CollapsingToolbarLayout>
   </android.support.design.widget.AppBarLayout>
   <!一图片详情页, NestedScrollView 是一个高级版 ScrollView 控件, 允许使用滚动的方式来查看屏幕以外的数据,
      NestedScrollView 在 ScrollView 的基础上增加了嵌套响应滚动事件的功能. 由于 CoordinatorLayout 本身已
      经可以响应滚动事件了,因此我们在它内部就需要使用 NestedScrollView 或 RecyclerView 这样的布局(来代替
      ScrollView). 由于 NestedScrollView(或 ScrollView)布局内部只允许存在一个直接子布局, 因此为了放入更多
      的内容, 先嵌套一个 LinearLayout 布局, 然后在 LinearLayout 中放入具体内容. 一>
   <android.support.v4.widget.NestedScrollView</pre>
       android:layout_width="match_parent"
       android:layout_height="match_parent"
       app:layout_behavior="@string/appbar_scrolling_view_behavior"><!一指定一个布局行为,避免滚动时遮挡
ToolBar-->
       <LinearLayout</pre>
           android:layout width="match parent"
           android:layout height="wrap content"
           android:orientation="vertical">
           <!--把要现实的图片详情内容放入 CardView 中-->
           <android.support.v7.widget.CardView</pre>
               android:layout_width="match_parent"
               android:layout_height="wrap_content"
               android:layout_marginBottom="15dp"<!一下边距—>
               android:layout_marginLeft="15dp"<!--左边距-->
               android:layout_marginRight="15dp"<!--右边距-->
               android:layout_marginTop="35dp"<!一上边距,为接下来的悬浮按钮预留控件-->
               app:cardCornerRadius="4dp">
               < TextView
                  android:id="@+id/girl_text_view"
                  android:layout_width="wrap_content"
                  android:layout_height="wrap_content"
                  android:layout margin="10dp" />
           </android.support.v7.widget.CardView>
       </LinearLayout>
   </android.support.v4.widget.NestedScrollView>
</android.support.design.widget.CoordinatorLayout>
```

#### 3,在界面上添加一个悬浮按钮:

```
<!--girl_Activity.xml-->
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout
.....>
<!--图片详情页标题栏-->
<android.support.design.widget.AppBarLayout
```

```
<android.support.design.widget.CollapsingToolbarLayout</pre>
            .....>
            <ImageView</pre>
                ...../>
            <android.support.v7.widget.Toolbar</pre>
                ...../>
        </android.support.design.widget.CollapsingToolbarLayout>
   </android.support.design.widget.AppBarLayout>
   <!--图片详情页-->
   <android.support.v4.widget.NestedScrollView</pre>
        .....>
        <LinearLayout</pre>
            .....>
            <android.support.v7.widget.CardView</pre>
               .....>
               <TextView
                    ...../>
            </android.support.v7.widget.CardView>
        </LinearLayout>
   </android.support.v4.widget.NestedScrollView>
   <!--悬浮按钮-->
   <android.support.design.widget.FloatingActionButton</pre>
        android:id="@+id/float_action_button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="16dp"
        android:src="@drawable/ic_cab_done"
        app:layout_anchor="@id/girl_app_bar"<!一为悬浮按钮指定一个锚点,将锚点设置为 AppBarLayout,这样
                                              悬浮按钮就会出现在标题栏内-->
        app: layout_anchorGravity="bottom|end" /><!--将悬浮按钮定位在标题栏区域右下角-->
</android.support.design.widget.CoordinatorLayout>
```

### 4,创建图片展示详情页 Activity,编写界面逻辑:

```
public class GirlActivity extends AppCompatActivity {
    public static final String GIRL_NAME = "Girl_Name";
```

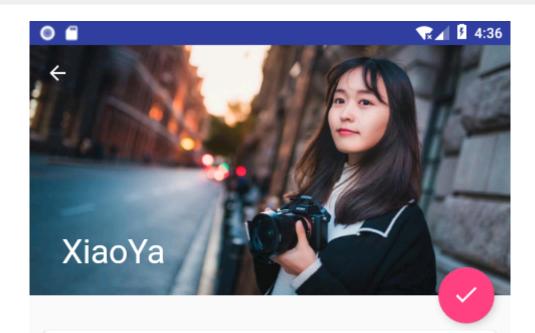
```
public static final String GIRL_IMAGE_ID = "Girl_Image_Id";
@Override
protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.girl_activity);
   //通过 Intent 获取传入的图片名称和图片资源 ID
   Intent intent = getIntent();
   String girlName = intent.getStringExtra(GIRL_NAME);
   int girlImageId = intent.getIntExtra(GIRL_IMAGE_ID, 0);
   //通过 findViewById 拿到各种控件的实例
   Toolbar toolbar = (Toolbar) findViewById(R.id.girl_tool_bar);
   CollapsingToolbarLayout collapsingToolbarLayout =
       (CollapsingToolbarLayout) findViewById(R.id.girl_collapsing_toolbar);
   ImageView girlImageView = (ImageView) findViewById(R.id.girl_image_view);
   TextView girlTextView = (TextView) findViewById(R.id.girl_text_view);
   //设置 ToolBar
   setSupportActionBar(toolbar);
   ActionBar actionBar = getSupportActionBar();
   if (actionBar != null) {
       actionBar.setDisplayHomeAsUpEnabled(true);//ToolBar 显示返回箭头
   }
   //将图片名称设置为页面标题
   collapsingToolbarLayout.setTitle(girlName);
   //为标题栏中的 ImageView 加载图片
   Glide.with(this).load(girlImageId).into(girlImageView);
   //设置图片详情内容文本
   String girlContent = generateGirlContent(girlName);
   girlTextView.setText(girlContent);
}
//模拟生成图片详情文本
private String generateGirlContent(String girlName) {
   StringBuilder stringBuilder = new StringBuilder();
   for (int i = 0; i < 500; i++) {
       stringBuilder.append(girlName);
   }
   return stringBuilder.toString();
}
@Override //处理返回箭头的点击事件
public boolean onOptionsItemSelected(MenuItem item) {
   switch (item.getItemId()) {
       case android.R.id.home:
```

```
finish();//点击返回箭头结束当前 Activity
break;
default:
break;
}
return true;
}
```

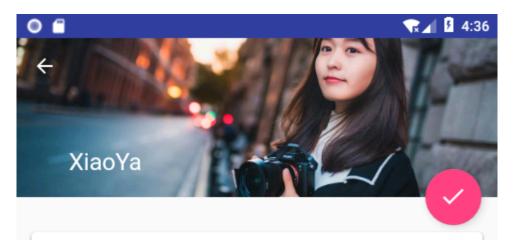
## 5,添加跳转到详情页的逻辑代码(在 GirlAdapter 类中添加卡片的点击事件):

```
public class GirlAdapter extends RecyclerView.Adapter<GirlAdapter.ViewHolder> {
   private Context context;
   private List<Girl> girlList;
   static class ViewHolder extends RecyclerView.ViewHolder {
       CardView cardView;
       ImageView imageView;
       TextView textView;
       /* ····· */
   }
   /* ····· */
   @Override
   public ViewHolder onCreateViewHolder(ViewGroup parent, final int viewType) {
       if (this.context == null) {
           this.context = parent.getContext();
       }
       View view = LayoutInflater.from(this.context).inflate(R.layout_layout_girl, parent, false);
       final ViewHolder viewHolder = new ViewHolder(view);
       viewHolder.cardView.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View v) {
               int position = viewHolder.getAdapterPosition();//获取点击的卡片id
               Girl girl = girlList.get(position);//获取卡片对应的 Girl 类的实例
               Intent intent = new Intent(context, GirlActivity.class);
               intent.putExtra(GirlActivity.GIRL_NAME, girl.getName());//传递girl name 参数
               intent.putExtra(GirlActivity.GIRL_IMAGE_ID, girl.getImageId());//传递 girl image id 参数
               context.startActivity(intent);//跳转页面
           }
       });
       return viewHolder;
```

```
//return new ViewHolder(view);
}
/* ..... */
}
```



XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa



XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXia aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa XiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiao YaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXi aoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYaXiaoYa

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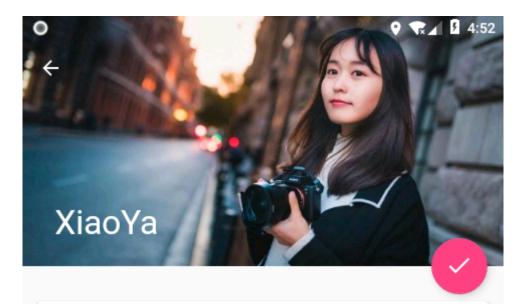
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