


# Custom Listview

Gv HungNQ

activity\_main.xml x MainActivity.java x

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-auto"
3   xmlns:app="http://schemas.android.com/apk/res-auto"
4   xmlns:tools="http://schemas.android.com/tools"
5   android:layout_width="match_parent"
6   android:layout_height="match_parent"
7   tools:context=".MainActivity">
8
9   <ListView
10     android:layout_width="match_parent"
11     android:layout_height="wrap_content"
12     android:id="@+id/lv"
13   ></ListView>
14
15 </android.support.constraint.ConstraintLayout>
```

New Android Component



# Configure Component

Android Studio

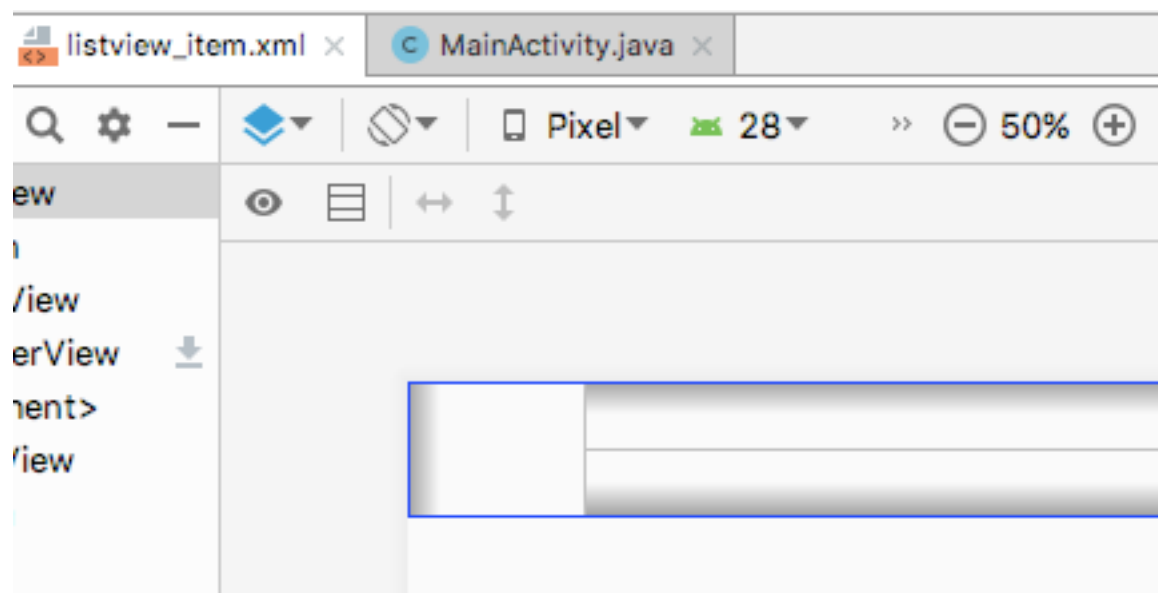
**Creates a new XML layout file.**

Layout File Name:

listview\_item

Root Tag:

LinearLayout



activity\_main.xml x listview\_item.xml x MainActivity.java x

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res:
3     android:layout_width="match_parent"
4     android:layout_height="wrap_content"
5     android:orientation="horizontal"
6     >
7     <TextView
8         android:layout_width="50dp"
9         android:layout_height="match_parent"
10        android:id="@+id/tvAvatar"
11    />
12    <LinearLayout
13        android:layout_width="match_parent"
14        android:layout_height="wrap_content"
15        android:orientation="vertical"
16    >
17        <TextView
18            android:layout_width="match_parent"
19            android:layout_height="wrap_content"
20            android:id="@+id/tvName"
21        />
22        <TextView
23            android:layout_width="match_parent"
24            android:layout_height="wrap_content"
25            android:id="@+id/tvPhone"
26        />
27    </LinearLayout>
28 </LinearLayout>
```

activity\_main.xml × listview\_item.xml × Contact.java × CustomAdatper.java × MainActivity.java ×

```
12 public class CustomAdatper extends ArrayAdapter<Contact> {
13     private Context context;
14     private int resource;
15     private List<Contact> arrContact;
16     private LayoutInflater inflater;
17
18     public CustomAdatper(Context context, int resource, List<Contact> arrContact) {
19         super(context, resource, arrContact);
20         this.context=context;
21         this.resource=resource;
22         this.arrContact = arrContact;
23         inflater = (LayoutInflater)context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
24     }
25
26
```

@Override

```
public View getView(int position, View convertView, ViewGroup parent) {  
    ViewHolder holder = new ViewHolder();  
    if(convertView==null)  
    {  
        convertView = inflater.inflate(R.layout.listview_item, root: null);  
        holder.tvAvatar = (TextView)convertView.findViewById(R.id.tvAvatar);  
        holder.tvName = (TextView)convertView.findViewById(R.id.tvName);  
        holder.tvPhone = (TextView)convertView.findViewById(R.id.tvPhone);  
        convertView.setTag(holder);  
    }  
    else  
    {  
        holder = (ViewHolder)convertView.getTag();  
    }  
  
    Contact contact = arrContact.get(position);  
    holder.tvAvatar.setText(String.valueOf(position));  
    holder.tvAvatar.setBackgroundColor(contact.getColor());  
    holder.tvName.setText(contact.getName());  
    holder.tvPhone.setText(contact.getPhone());  
  
    return convertView;  
}  
public class ViewHolder{  
    TextView tvName, tvPhone, tvAvatar;  
}
```



```

public class MainActivity extends AppCompatActivity {
    private ListView lvContact;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        lvContact = (ListView) findViewById(R.id.lv);
        ArrayList<Contact> arrContact = new ArrayList<>();

        Contact contact1 = new Contact( name: "Trương Đình Chiến", phone: "0988 933 xxx", Color.RED);
        Contact contact2 = new Contact( name: "Võ Văn Tá", phone: "01667 585 545", Color.GREEN);
        Contact contact3 = new Contact( name: "Lê Tấn Dũng", phone: "0918 033 033", Color.GRAY);
        Contact contact4 = new Contact( name: "Trương Quang Lâm", phone: "0978 102 102", Color.YELLOW);
        Contact contact5 = new Contact( name: "Võ Duy Tính", phone: "01667 333 000", Color.BLACK);
        Contact contact6 = new Contact( name: "Trần Văn Toàn", phone: "08 999 321", Color.BLUE);
        Contact contact7 = new Contact( name: "Lại Thế Quang", phone: "01222 331 331", Color.CYAN);

        arrContact.add(contact1);
        arrContact.add(contact2);
        arrContact.add(contact3);
        arrContact.add(contact4);
        arrContact.add(contact5);
        arrContact.add(contact6);
        arrContact.add(contact7);

        CustomAdatper customAdatper = new CustomAdatper( context: this,R.layout.listview_item,arrContact);
        lvContact.setAdapter(customAdatper);
    }
}

```