# **ListView**

#### 1. 创建ListView 布局

```
<ListView
  android:id="@+id/list_view"
  android:layout_width="match_parent"
  android:layout_height="match_parent" />
```

### 2.给listview 每个 item 创建自定义对象

```
fruit.java

private String text;

private int imageId;
```

## 3. 创建自定义适配器(关键)

ViewHolder.java(存储每个item中的所有控件)

```
public class ViewHolder {
    public ImageView imageView;
    public TextView textView;
}
```

MyArrayAdapter.java

```
public class MyArrayAdapter extends ArrayAdapter<Fruit> {
   private int resourceId; // 因为 要调用 inflate 方法,需要保存布局
    public MyArrayAdapter(@NonNull Context context, @LayoutRes int
resource, @NonNull List<Fruit> objects) {
       super(context, resource, objects);
        resourceId = resource;
   @Override
    public View getView(int position, View convertView, ViewGroup p
arent) {
        Fruit fruit = getItem(position);
       ViewHolder viewHolder;
       View view=null; // view实际上获得的是每个item对象,即 fruit.xml
       if(convertView==null){
           view= LayoutInflater.from(getContext()).inflate(resourc
eId,parent,false);
           viewHolder = new ViewHolder();
           viewHolder.imageView = (ImageView)view.findViewById(R.i
d.image);
           viewHolder.textView = (TextView)view.findViewById(R.i
d.text_view);
           view.setTag(viewHolder); //将当前item 中的空间与 view 对象
       }else{
           view = convertView;
           viewHolder = (ViewHolder)view.getTag();
```

```
viewHolder.imageView.setImageResource(fruit.getImageId());
    viewHolder.textView.setText(fruit.getText());
    return view;
}
```

#### 4. 主活动

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    initFruits();
    MyArrayAdapter adapter = new MyArrayAdapter(MainActivity.thi
s,R.layout.fruit_item,list);
    ListView listView = (ListView)findViewById(R.id.list_view);
    listView.setAdapter(adapter);
    listView.setOnItemClickListener(new AdapterView.OnItemClickList
ener() {
        @Override
        public void onItemClick(AdapterView<?> parent, View view, i
nt position, long id) {
            Fruit fruit = list.get(position);
            Toast.makeText(MainActivity.this,fruit.getText()+positi
on,Toast.LENGTH_SHORT).show();
    });
```