activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"**>  
  
 <**ListView  
 android:id="@+id/listView1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"** />  
</**RelativeLayout**>

list\_item.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="horizontal"**>

<**TextView  
 android:id="@+id/tvName"  
 android:layout\_width="250dp"  
 android:layout\_height="wrap\_content"  
 android:text="TextView"  
 android:layout\_marginRight="50dp"**/>  
  
 <**TextView  
 android:id="@+id/tvAge"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TextView"** />  
</**LinearLayout**>

students.xml 位于res/xml/students.xml

*<?***xml version="1.0" encoding="UTF-8"***?>*<**students**>  
 <**student**>  
 <**name**>韦小宝</**name**>  
 <**age**>30</**age**>  
 </**student**>  
 <**student**>  
 <**name**>李小龙</**name**>  
 <**age**>35</**age**>  
 </**student**>  
 <**student**>  
 <**name**>张三丰</**name**>  
 <**age**>100</**age**>  
 </**student**>  
 <**student**>  
 <**name**>习大大</**name**>  
 <**age**>65</**age**>  
 </**student**>  
 <**student**>  
 <**name**>3344br</**name**>  
 <**age**>5</**age**>  
 </**student**>  
  
</**students**>

MainActivity.java

**package** com.amaker.hjs.adapterdemo2.listviewsimpleadapter;  
  
**import** android.os.Handler;  
**import** android.os.Message;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.widget.ListView;  
**import** android.widget.SimpleAdapter;  
**import** android.widget.Toast;  
  
**import** org.xmlpull.v1.XmlPullParser;  
**import** org.xmlpull.v1.XmlPullParserException;  
  
**import** java.io.IOException;  
**import** java.util.ArrayList;  
**import** java.util.HashMap;  
**import** java.util.List;  
**import** java.util.Map;  
  
  
**public class** MainActivity **extends** AppCompatActivity {  
 **private static final int *MSG\_FILLDATA\_FINISH***=0x0001;  
 **private static final int *MSG\_EXCEPTION***=0x0002;  
  
 **private** ListView **listView**;  
 **private** List<Map<String, String>> **data**;*//data的数据类型要求  
  
 //主线程的消息队列* **private** Handler **handler** = **new** Handler(){  
 **public void** handleMessage(Message msg){  
 **switch** (msg.**what**){  
 **case *MSG\_FILLDATA\_FINISH***:  
 SimpleAdapter adapter = **new** SimpleAdapter(  
 MainActivity.**this**, *//上下文* **data**, *//data要求数据源类型为list，中间泛型必须为map或继承于map，map的键一定是String类型，值无所谓* R.layout.***list\_item***, *//子项布局* **new** String[]{**"name"**, **"age"**}, *//from参数：显示数据在数据源中key的名字，String数组类型* **new int**[]{R.id.***tvName***, R.id.***tvAge***} ); *//to参数：显示数据的控件的id，from和to 一一对应* **listView**.setAdapter(adapter);  
 **break**;  
 **case *MSG\_EXCEPTION***:  
 Toast.*makeText*(MainActivity.**this**,**"数据出现异常无法显示"**,Toast.***LENGTH\_LONG***);  
 **break**;  
 }  
 }  
 };  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **listView** = (ListView) findViewById(R.id.***listView1***);  
 *//fillData(); //填充数据源  
 /\* try {  
 fillData2();  
 } catch (IOException e) {  
 e.printStackTrace();  
 } catch (XmlPullParserException e) {  
 e.printStackTrace();  
 }  
 SimpleAdapter adapter = new SimpleAdapter(  
 this, //上下文  
 data, //data要求数据源类型为list，中间泛型必须为map或继承于map，map的键一定是String类型，值无所谓  
 R.layout.list\_item, //子项布局  
 new String[]{"name", "age"}, //from参数：显示数据在数据源中key的名字，String数组类型  
 new int[]{R.id.tvName, R.id.tvAge} ); //to参数：显示数据的控件的id，from和to 一一对应  
 listView.setAdapter(adapter);\*/  
  
 //由于读写文件比较耗时，我们应该使用设置子线程的方法来处理* **new** Thread(){  
 **public void** run(){  
 **try** {  
 fillData2();  
 *//发送通知* **handler**.sendEmptyMessage(***MSG\_FILLDATA\_FINISH***);  
 } **catch** (IOException e) {  
 e.printStackTrace();  
 **handler**.sendEmptyMessage(***MSG\_EXCEPTION***);  
 } **catch** (XmlPullParserException e) {  
 **handler**.sendEmptyMessage(***MSG\_EXCEPTION***);  
 }  
 }  
 }.start();  
  
 }

*//写死一些数据来模拟数据源* **private void** fillData(){  
 **data** = **new** ArrayList<Map<String, String>>();  
 *//第一条数据* Map<String,String> stu1 = **new** HashMap<String, String>();  
 stu1.put(**"name"**,**"黄继升"**);  
 stu1.put(**"age"**,**"21"**);  
 *//添加到集合中* **data**.add(stu1);  
  
 *//第二条数据* Map<String,String> stu2 = **new** HashMap<String, String>();  
 stu2.put(**"name"**,**"风清扬"**);  
 stu2.put(**"age"**,**"80"**);  
 *//添加到集合中* **data**.add(stu2);  
  
 *//第三条数据* Map<String,String> stu3 = **new** HashMap<String, String>();  
 stu3.put(**"name"**,**"萧远山"**);  
 stu3.put(**"age"**,**"50"**);  
 *//添加到集合中* **data**.add(stu3);  
 }  
  
 *//解析xml后作为数据源* **private void** fillData2() **throws** IOException, XmlPullParserException {  
 List<Student> stuList = **new** ArrayList<Student>();  
 Student stu = **null**;  
 *//解析xml过程* XmlPullParser parser = getResources().getXml(R.xml.***students***);  
 **int** eventType = parser.getEventType();  
 **while** (eventType!=XmlPullParser.***END\_DOCUMENT***){  
 **switch** (eventType){  
 **case** XmlPullParser.***START\_DOCUMENT***: *//文档开始事件* **break**;  
 **case** XmlPullParser.***START\_TAG***: *//子标签开始事件* String name = parser.getName();  
 **if** (name.equals(**"student"**)){ *//学生对象开始标签* stu = **new** Student(); *//创建学生对象* }  
 **if** (name.equals(**"name"**)){ *//学生对象名字开始标签* String stuName = parser.nextText(); *//拿到学生名字* stu.setName(stuName); *//设置名字* }  
 **if** (name.equals(**"age"**)){ *//学生对象年龄开始标签* String age = parser.nextText(); *//拿到学生年龄* stu.setAge(age); *//设置年龄* }  
 **break**;  
 **case** XmlPullParser.***END\_TAG***: *//子标签结束事件* name = parser.getName();  
 **if** (name.equals(**"student"**)){ *//学生对象结束标签* stuList.add(stu); *//加入到学生列表中* }  
 **break**;  
 }  
 eventType=parser.next();  
  
 }  
 *//填充数据* **data** = **new** ArrayList<Map<String, String>>();  
 **for** (Student s:stuList){  
 Map<String,String> stu1 = **new** HashMap<String, String>();  
 stu1.put(**"name"**,s.getName());  
 stu1.put(**"age"**,s.getAge());  
 **data**.add(stu1);  
 }  
 }  
  
 **private class** Student {  
 **private** String **name**;  
 **private** String **age**;  
  
 **public** String getName() {  
 **return name**;  
 }  
  
 **public void** setName(String name) {  
 **this**.**name** = name;  
 }  
  
 **public** String getAge() {  
 **return age**;  
 }  
  
 **public void** setAge(String age) {  
 **this**.**age** = age;  
 }  
  
 *//生成带参构造* **public** Student(String name, String age) {  
 **this**.**name** = name;  
 **this**.**age** = age;  
 }  
  
 **public** Student() {  
 }  
 }  
  
 }

