

Spinner 实现省市县的三级联动

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下拉框 Spinner 控件：

常用属性	
属性	说明
android:prompt	下拉提示信息
android:spinnerMode	下拉显示方法
android:entries	配置下拉框数据源
android:dropDownWidth	下拉框显示模式下的显示项宽度
常用方法	
方法	说明
getDropDownWidth()	获得下拉框宽度
getPrompt()	获取下拉框提示信息
setAdapter(SpinnerAdapter adapter)	设置数据源适配器
setDropDownWidth(int pixels)	设置下拉框宽度
setOnItemSelectedListener(AdapterView.OnItemSelectedListener I)	设置下拉项选择监听
setPrompt(CharSequence prompt)	设置下拉提示信息
setDropDownViewResource(int resId)	设置下拉显示样式
列表项配置方式	
通过布局文件的 entries 属性配置	编写数据源文件 ,用 string-array 标签包裹 , 每一个 item 代表一个下拉列表项。然后在布

	局文件中用 android:entries 属性引用
在代码中配置	以适配器形式设置数据源，并设置下拉项选择监听

一、修改布局文件 activity_main.xml

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
    android:orientation="horizontal">

    <Spinner
        android:id="@+id/provinceSpinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"/>
    <Spinner
        android:id="@+id/citySpinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"/>
    <Spinner
        android:id="@+id/countySpinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"/>

</LinearLayout>
```

Spinner控件：是一个列表选择框，可弹出一个列表供用户选择，它的数据也需要使用Adapter进行封装

xml属性：
android:spinnerMode:列表显示的样式，有弹出列表（dialog）和下拉列表（dropdown），默认是下拉列表

android:prompt: 对当前列表设置标题，只在dialog模式下有效

代码：

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:text="@string/selection"
        android:padding="6dp"/>
```

<LinearLayout

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
    android:orientation="horizontal">
```

<Spinner

```
    android:id="@+id/provinceSpinner"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"/>
```

<Spinner

```
    android:id="@+id/citySpinner"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"/>
```

<Spinner

```
    android:id="@+id/countySpinner"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"/>
```

</LinearLayout>

<TextView

```
    android:id="@+id/show"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textSize="20sp"
    android:padding="6dp"
    android:layout_marginTop="80dp"
    android:text="@string/selected"/>
```

二、修改 MainActivity.java 文件

1. 首先准备数据

这里用字符串数组的方式存数据。

代码如下：

```
private String[] province = new String[]{"北京","上海","天津","广东"};
private String[][] city = new String[][]{
    {"东城区","西城区","崇文区","宣武区","朝阳区","海淀区","丰台区","石景山区","门头沟区",
```

```

        "房山区","通州区","顺义区","大兴区","昌平区","平谷区","怀柔区","密云县","延庆县
    },
    {"长宁区","静安区","普陀区","闸北区","虹口区"},
    {"和平区","河东区","河西区","南开区","河北区","红桥区","塘沽区","汉沽区","大港区","东丽
区"},
    {"广州","深圳","韶关"};
private String[][] county = new String[][]{
    { //北京
        {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"},
        {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"},
    },
    { //上海
        {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"},
    },
    { //天津
        {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"},
    },
    { //广东
        {"海珠区","荔湾区","越秀区","白云区","萝岗区","天河区","黄浦区","花都区","从化市","增城
市",
        "番禺区","南沙区"},
        {"宝安区","福田区","龙岗区","罗湖区","南山区","盐田区"},
        {"武江区","浈江区","曲江区","乐昌市","南雄市","始兴县","仁化县","翁源县","新丰县","乳源
县"}}
};

```

2. 声明布局文件对应的对象

```

public class MainActivity extends AppCompatActivity {

    private TextView show; //用于显示选择结果
    private Spinner provinceSpinner; //省级
    private Spinner citySpinner; //市级
    private Spinner countySpinner; //区级
}

```

对应布局文件中的三个spinner

3. 声明适配器

```

//Spinner想要填充肯定需要适配器
private ArrayAdapter<String> provinceAdapter; //三个适配器分别用于填充省、市、县的数据
private ArrayAdapter<String> cityAdapter;
private ArrayAdapter<String> countyAdapter;

```

4. 在 onCreate 方法中，调用初始化控件方法

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
}

```

```

        setContentView(R.layout.activity_main);
        initView();//初始化控件方法
    }

```

5. 编写 initView()方法

(1) 获取对应布局文件的控件

```

provinceSpinner = (Spinner) findViewById(R.id.provinceSpinner);
citySpinner = (Spinner) findViewById(R.id.citySpinner);
countySpinner = (Spinner) findViewById(R.id.countySpinner);
show = (TextView) findViewById(R.id.show);

```

(2) 初始化适配器及显示的内容

因为最先选择的是省份，所以最先初始化适配器的是省份对应的

provinceAdapter ,市级的需要在选中省级的时候 ,动态的改变市级对应的显示，
县级的需要在选中市级的时候动态的改变。

```

provinceAdapter = new ArrayAdapter<String>( context: this, android.R.layout.simple_spinner_item, province);
provinceSpinner.setAdapter(provinceAdapter);

```

将adapter添加到spinner中 使用ArrayAdapter适配器，需要传入三个参数：上下文对象，显示布局文件，数据源

(3) 对省级下拉实现监听

```

private int provincePosition; //省级选中索引      记录选中的省、市的索引位置，供动态改变县级数据时使用
private int cityPosition; //市级选中索引

```

```

provinceSpinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
    @Override
    public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
        //需要在item选中省级的时候，动态的改变市级对应的显示
        cityAdapter = new ArrayAdapter<String>( context: MainActivity.this, android.R.layout.simple_spinner_item, city[position]);
        //设置二级下拉列表当中选项内容适配器
        citySpinner.setAdapter(cityAdapter);
        //记录当前的省级索引位置，留给下面修改县级进行适配使用
        provincePosition = position;
    }

    @Override
    public void onNothingSelected(AdapterView<?> parent) {
    }
});

```

添加spinner的事件监听

选中时候的操作：选中省份，动态的改变市级对应的显示

根据选中的省份，改变要显示的市级数据

记录当前省级的索引位置

未被选取时候的操作

(4) 对市级实现下拉监听


```

        {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"},
    },
    { //上海
        {"无"}, {"无"}, {"无"}, {"无"}, {"无"},
    },
    { //天津
        {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"}, {"无"},
    },
    { //广东
        {"海珠区", "荔湾区", "越秀区", "白云区", "萝岗区", "天河区", "黄浦区", "花都区", "从化市", "
增城市",
        "番禺区", "南沙区"},
        {"宝安区", "福田区", "龙岗区", "罗湖区", "南山区", "盐田区"},
        {"武江区", "浈江区", "曲江区", "乐昌市", "南雄市", "始兴县", "仁化县", "翁源县", "新丰县", "
乳源县"}
    }
};

//Spinner 想要填充肯定需要适配器
private ArrayAdapter<String> provinceAdapter;
private ArrayAdapter<String> cityAdapter;
private ArrayAdapter<String> countyAdapter;

private int provincePosition; //省级选中索引
private int cityPosition; //市级选中索引

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    initView(); //初始化
}

//控件初始化
private void initView(){
    provinceSpinner = (Spinner) findViewById(R.id.provinceSpinner);
    citySpinner = (Spinner) findViewById(R.id.citySpinner);
    countySpinner = (Spinner) findViewById(R.id.countySpinner);
    show = (TextView) findViewById(R.id.show);

    //初始化适配器及显示的内容
    provinceAdapter = new
ArrayAdapter<String>(this, android.R.layout.simple_spinner_item, province);
    provinceSpinner.setAdapter(provinceAdapter);

```

```

//对省级下拉实现监听，市级下拉需要根据不同的省级显示不同内容
provinceSpinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener()
{
    @Override
    public void onItemSelected(AdapterView<?> parent, View view, int position, long
id) {

        //需要在 item 选中省级的时候，动态的改变市级对应的显示
        cityAdapter = new
ArrayAdapter<String>(MainActivity.this,android.R.layout.simple_spinner_item,city[position]);
        //设置二级下拉列表当中选项内容适配器
        citySpinner.setAdapter(cityAdapter);
        //记录当前的省级索引位置，留给下面修改县级进行适配使用
        provicePosition = position;

    }

    @Override
    public void onNothingSelected(AdapterView<?> parent) {

    }

});

//市级下拉监听
citySpinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
    @Override
    public void onItemSelected(AdapterView<?> parent, View view, int position, long
id) {

        //需要在 item 选中市级的时候，动态的改变县级对应的显示
        countyAdapter = new ArrayAdapter<String>(

MainActivity.this,android.R.layout.simple_spinner_item,county[provicePosition][position]);//首先确定是哪个省的。
        //设置二级下拉列表当中选项内容适配器
        countySpinner.setAdapter(countyAdapter);
        show.setText("选中的城市为:" + province[provicePosition] +
city[provicePosition][position]);
        cityPosition = position;

    }

    @Override
    public void onNothingSelected(AdapterView<?> parent) {

```

```

    }
});

//县级的下拉监听
countySpinner.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> parent, View view, int position, long
id) {
        show.setText("选中的城市为:" + province[provincePosition] +
city[provincePosition][cityPosition]
        + county[provincePosition][cityPosition][position]);
    }

    @Override
    public void onNothingSelected(AdapterView<?> parent) {

    }
});
}
}

```

三、运行结果展示

11:31



SpinnerTest

请输入您选择的城市：

广东 ▼ 深圳 ▼ 宝安区 ▼

选中的城市为:广东深圳宝安区