线性布局LinearLayout

常用属性:

android:id //标识id android:layout_width //宽度 android:layout_height //高度 android:background //背景

android: layout_margin //外边距 android:layout_padding //内边距 android:orientation //排列格式 "水平居中等等"

相对布局RelativeLayout

常用属性:

android:layout_toLeftOf //在谁的左边 android:layout_toRightOf //在谁的右边 android:layout_alignBottom //跟谁底部对齐 android:layout_alignParentBottom //跟父空间底部对

android:layout_below //在谁的下面

TextView

文字大小、颜色:

<Button
android:layout_width="match_parent"
android:layout_width="match_parent"
android:layout_height="40dp"
android:id="@+id/btu_1"
android:text="按钮1"
android:textSize="20sp"
android:textColor="#ffffff"
android:background="#ff9900"/>

自定义背景现状:

name: shape 后缀为xml的文件代码为:
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"
android:shape="rectangle">
<stroke //边框宽度
android:width="1dp"

Button

```
自定义按压效果:
在res/drawable文件下创建一个名为bg_btn3的
                                           在res/drawable文件下创建一个名为bg_btn4的
name: shape 后缀为xml的文件代码为:
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
<item android:state pressed="true">
                                       //点击后的颜色
<shape>
<solid android:color="#ff9900"/>
<corners android:radius="5dp"/>
</shape>
<corners
            //边角形状
                                                </item>
android:radius="20dp"/>
                                                    <item android:state pressed="false">
//未点击的颜色
</shape>
<shape>
<solid android:color="#aa6600"/>
<corners android:radius="5dp"/>
</shape>
</item>
</selector>
//构建布局下调用bg_btn4
<Button
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/btu 4"
android:text="按钮4"
android:textSize="20sp"
android:textColor="#ffff"
android:layout below="@id/btu 3"
android:layout_marginTop="10dp"
android:background="@drawable/bg btn4"
android:onClick="showToast"/>
```

```
点击事件:
public class ButtonActivity extends AppCompatActivity {
  private Button mBtn3;
                          //定义布局里的Button
  private TextView mTv1; //定义布局里的TextView
  @Nullable
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity button);
    mBtn3=(Button) findViewById(R.id.btu 3);
                                                     //调用布局里id为btu 3的Button按钮
    mBtn3.setOnClickListener(new View.OnClickListener() {
                                                                   onClick事件
                                                          //set
      @Override
      public void onClick(View view) {
         Toast.makeText(ButtonActivity.this,"btn3被点击了",Toast.LENGTH SHORT).show();
      }
    });
    mTv1=(TextView)findViewById(R.id.tv_1);
                                                     //调用布局里id为tv_1的TextView文本
    mTv1.setOnClickListener(new View.OnClickListener() { //set
                                                              onClick事件
      @Override
      public void onClick(View view) {
         Toast.makeText(ButtonActivity.this,"tv1被点击了",Toast.LENGTH_SHORT).show();
      }
    });
  public void showToast(View view){
    Toast.makeText(this,"btn4我被点击了",Toast.LENGTH_SHORT).show();
```

EditText

```
常用属性:
```

}

```
<EditText

android:id="@+id/et_1"

android:layout_width="match_parent"

android:layout_height="80dp"
```

```
android:background="@drawable/bg username"
                                                //引用bg_username.xml的属性包括(边框
及其形状,颜色)
 android:drawableLeft="@drawable/user"
                                            //导入图片
 android:hint="用户名:"
                                    //EditText的hint名
 android:inputType="number"
                                        //输入类型规定
 android:inputType="number"
                                        //输入类型规定
 android:paddingRight="10dp"
                                        //正确边距
 android:textColor="#ffad33"
                                        //字体颜色
 android:textSize="20sp"
                                        //字体大小
 android:maxLines="1"
                                    //输入只有1行
 android:layout marginTop="50dp"/>
                                            //上下间隔
监听事件:
EditTextActivity.java下操作
                            //按钮
                            //EditText (编辑文本)
```

```
public class EditTextActivity extends AppCompatActivity {
private Button mBtnLogin;
private EditText mEtUserName;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity edit text);
//按钮
mBtnLogin=(Button)findViewByld(R.id.btn login);
mBtnLogin.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
Toast.makeText(EditTextActivity.this,"登录成功",Toast.LENGTH SHORT).show();
 }
});
mEtUserName=(EditText)findViewById(R.id.et 1);
mEtUserName.addTextChangedListener(new TextWatcher() {
@Override
//在文本之前改变
public void beforeTextChanged(CharSequence charSequence, int i, int i1, int i2) {
```

```
@Override
//在文本改变当中
public void onTextChanged(CharSequence charSequence, int i, int i1, int i2) {
Log.d("edittext",charSequence.toString());
}
@Override
//在文本之后改变
public void afterTextChanged(Editable editable) {
}
});
}
}
制作登录页面:
new->Activity->name->EditTextActivity&& .xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  android:padding="15dp">
  <EditText
    android:id="@+id/et 1"
    android:layout width="match parent"
    android:layout height="80dp"
    android:background="@drawable/bg username"
    android:drawableLeft="@drawable/user"
    android:hint="用户名:"
    android:inputType="number"
    android:paddingLeft="10dp"
    android:paddingRight="10dp"
    android:textColor="#ffad33"
    android:textSize="20sp"
```

```
android:drawablePadding="5dp"
    android:maxLines="1"
    android:layout_marginTop="50dp"/>
  <EditText
    android:layout width="match parent"
    android:layout height="80dp"
    android:id="@+id/et 2"
    android:textSize="20sp"
    android:textColor="#000000"
    android:hint="密码:"
    android:layout below="@id/et 1"
    android:layout marginTop="15dp"
    android:inputType="textPassword"
    android:background="@drawable/bg username"
    android:paddingRight="10dp"
    android:paddingLeft="10dp"
    android:drawableLeft="@drawable/password"
    android:drawablePadding="5dp"
    android:maxLines="1" />
  <Button
    android:layout width="match parent"
    android:layout_height="40dp"
    android:id="@+id/btn login"
    android:layout below="@id/et 2"
    android:layout_marginTop="40dp"
    android:text="登录"
    android:textSize="20dp"
    android:textColor="#ffffff"
    android:background="@drawable/bg btn4"/>
</RelativeLayout>
```

RadioButton

常用属性: <?xml version="1.0" encoding="utf-8"?>

```
xmlns:tools="http://schemas.android.com/tools"
 android:layout width="match parent"
 android:layout height="match parent"
android:padding="15dp">
<RadioGroup
 android:layout width="wrap content"
  android:layout height="wrap content"
   android:id="@+id/rg 1"
 android:orientation="vertical"> //设置方向(水平.....)
 <RadioButton
   android:layout_width="wrap_content"
    android:layout height="wrap content"
     android:id="@+id/rb 1"
    android:text="男"
    android:textSize="18sp"
     android:textColor="#ff6600"
     android:checked="true"    //默认为男,务必设置id
    android:button="@null"/> //把按钮去掉
   <RadioButton
   android:layout width="wrap content"
     android:layout height="wrap content"
     android:id="@+id/rb 2"
   android:text="女"
 android:textSize="18sp"
    android:textColor="#ff6600"/>
</RadioGroup>
</RelativeLayout>
自定义样式:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:layout width="match parent"
 android:layout height="match parent"
 android:padding="15dp">
```

xmlns:app="http://schemas.android.com/apk/res-auto"

```
< Radio Group
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:id="@+id/rg 1"
android:orientation="vertical">
<RadioButton
   android:layout width="wrap content"
    android:layout height="wrap content"
    android:id="@+id/rb 1"
    android:text="男"
   android:textSize="18sp"
    android:textColor="#000000"
   android:checked="true"/>
<RadioButton
    android:layout_width="wrap_content"
android:layout height="wrap content"
    android:id="@+id/rb 2"
  android:text="女"
   android:textSize="18sp"
   android:textColor="#000000"/>
</RadioGroup>
< Radio Group
android:layout width="wrap content"
android:layout height="wrap content"
android:id="@+id/rg 2"
android:orientation="horizontal"
android:layout below="@id/rg 1"
android:layout marginTop="50dp">
<RadioButton
android:layout width="60dp"
android:layout height="30dp"
android:id="@+id/rb 3"
  android:text="<mark>期</mark>"
android:textSize="18sp"
android:textColor="#000000"
android:button="@null"
   android:gravity="center"
```

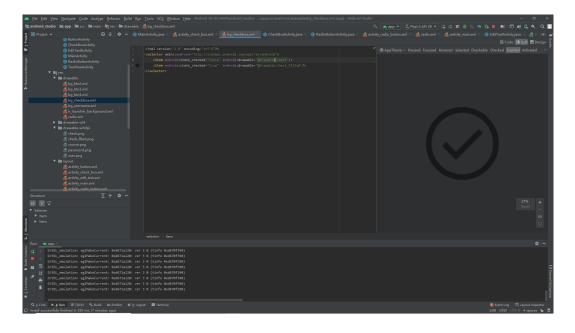
```
<RadioButton
  android:layout width="60dp"
    android:layout height="30dp"
   android:id="@+id/rb 4"
   android:text="<u>女</u>"
   android:textSize="18sp"
    android:textColor="#000000"
   android:button="@null"
   android:gravity="center"
     android:background="@drawable/radio"/>
</RadioGroup>
//radio.xml文件:
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
 <item android:state checked="true">
 <shape>
 <solid android:color="#ff9900"/>
 <corners android:radius="5dp"/>
 </shape>
</item>
<item android:state_checked="false">
 <shape>
   <stroke android:width="5dp"
     android:color="#aa6600"/>
    <corners android:radius="5dp"/>
 </shape>
 </item>
</selector>
监听事件:
package com.example.androidon;
import androidx.appcompat.app.AppCompatActivity;
```

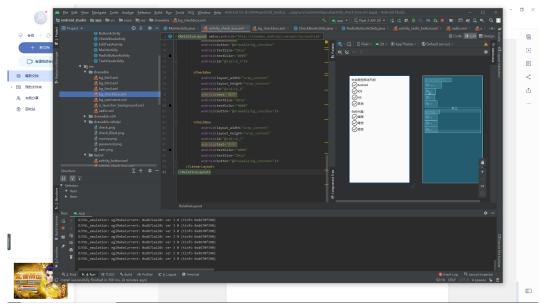
import android.os.Bundle;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;

```
public class RadioButtonActivity extends AppCompatActivity {
 private RadioGroup mRg1;
 private RadioGroup mRg2;
@Override
 protected void onCreate(Bundle savedInstanceState) {
 super.onCreate(savedInstanceState);
 setContentView(R.layout.activity radio button);
 mRg1 = (RadioGroup) findViewById(R.id.rg 1);
 mRg1.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {
   @Override
   public void onCheckedChanged(RadioGroup radioGroup, int i) {
        RadioButton radiobutton = (RadioButton) radioGroup.findViewById(i);
      Toast.makeTex1(RadioButtonActivity.this, radiobutton.getText(), Toast.LENGTH SHOR1).show();
                                    复选框CheckBox
常用属性:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:layout width="match parent"
 android:layout_height="match_parent"
 android:padding="15dp">
 <TextView
   android:layout width="wrap content"
   android:layout_height="wrap_content"
 android:text="你会那些移动开发! "
   android:textSize="20sp"
 android:textColor="#000"
   android:id="@+id/tv title"/>
 <CheckBox
   android:layout_width="wrap_content"
   android:layout height="wrap content"
  android:text="Android"
```

```
android:textSize="20dp"
  android:layout below="@id/tv title"
  android:id="@+id/cb 1"
android:button="@drawable/bg checkbox"/> //图片导入
<CheckBox
  android:layout width="wrap content"
  android:layout height="wrap content"
android:id="@+id/cb 2"
android:text="iOS"
  android:textSize="20sp"
android:layout below="@id/cb 1"
android:button="@drawable/bg checkbox"/> //图片导入
<CheckBox
android:layout width="wrap_content"
  android:layout height="wrap content"
android:id="@+id/cb 3"
android:text="H5"
android:textSize="20sp"
android:layout below="@id/cb 2"
android:button="@drawable/bg checkbox"/> //图片导入
<CheckBox
  android:layout width="wrap content"
 android:layout height="wrap content"
android:id="@+id/cb 4"
android:text="其他"
android:textSize="20sp"
  android:layout below="@id/cb 3"
android:button="@drawable/bg checkbox"/> //图片导入
<LinearLayout
android:layout width="match parent"
android:layout height="wrap content"
 android:orientation="vertical"
android:layout below="@id/cb 4"
  android:layout marginTop="20dp">
  <TextView
   android:layout width="wrap content"
   android:layout height="wrap content"
android:text="<mark>你的兴趣: "</mark>
    android:textSize="20sp"
    android:textColor="#000" />
```

```
<CheckBox
 android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:text="编程"
 android:button="@drawable/bg checkbox" //图片导入
  android:textSize="20sp"
 android:textColor="#000"
  android:id="@+id/cb 5"/>
 <CheckBox
 android:layout width="wrap content"
 android:layout height="wrap content"
 android:id="@+id/cb_6"
 android:text="睡觉"
 android:textSize="20sp"
 android:textColor="#000"
 android:button="@drawable/bg checkbox"/> //图片导入
 <CheckBox
   android:layout width="wrap content"
 android:layout height="wrap content"
 android:id="@+id/cb 7"
 android:text="做饭"
 android:textColor="#000"
 android:textSize="20sp"
 android:button="@drawable/bg checkbox"/> //图片导入
</LinearLayout>
自定义样式:
res下
在draweble包下创建一个.xml样式
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
<item android:state checked="false" android:drawable="@drawable/check"/>
 <item android:state checked="true" android:drawable="@drawable/check filled"/>
</selector>
```





android:button="@drawable/bg_checkbox"/>

监听事件:

在CheckBoxActivity.java下完成监听事件

```
The first feet (per light) and the Analysis before (put light) and the Control of Contro
```

package com.example.androidon;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.CheckBox;
import android.widget.CompoundButton;
import android.widget.Toast;

```
public class CheckBoxActivity extends AppCompatActivity {
    private CheckBox mCb6,mCb7; //声明控件

@Override

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_check_box);
    mCb6=(CheckBox) findViewById(R.id.cb_6);
    mCb7=(CheckBox) findViewById(R.id.cb_7);
```

ImageView

Button的其他衍生控件: ToggleButton、Switch

常用属性:

加载网络图片:

fitXY: 撑满控件, 宽高比可能发生变化

fitCenter: 保持宽高比缩放, 至只能完全显示

centerCrop: 保持宽高比缩放,直至完全覆盖控件,裁剪显示