布局

**LinearLayout**

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="300dp"  android:layout\_width="300dp"  android:orientation="horizontal"  android:layout\_gravity="center"  android:gravity="center"** >    <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="按钮1"  android:layout\_weight="1"** />   <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="按钮2"  android:layout\_weight="1"** />    <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"  android:orientation="vertical"** >   <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="按钮3"  android:layout\_weight="1"** />  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="按钮4"** />    </**LinearLayout**>   <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="按钮5"** />   </**LinearLayout**> |

**FrameLayout**

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="match\_parent"  android:layout\_width="match\_parent"  android:orientation="vertical"** >   <**FrameLayout  android:id="@+id/myframe"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"** >  <**TextView  android:layout\_width="200dp"  android:layout\_height="200dp"  android:background="#BBE1FF"** />  <**TextView  android:layout\_width="100dp"  android:layout\_height="100dp"  android:background="#E8C65F"** />  <**TextView  android:layout\_width="100dp"  android:layout\_height="100dp"  android:text="HHU"  android:textColor="#F40606"  android:textSize="40sp"** />  <**ImageView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:src="@drawable/timg"**>  </**ImageView**>  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="next"  android:layout\_gravity="right"**>  </**Button**>   </**FrameLayout**> </**LinearLayout**> |

**RelativeLayout**

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"** >  <**TextView  android:id="@+id/label"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="相对布局"  android:textSize="50sp"** >    </**TextView**>  <**EditText  android:id="@+id/et1"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_below="@id/label"** >  </**EditText**>  <**Button  android:id="@+id/btn1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_below="@id/et1"  android:text="OK"  android:layout\_alignParentRight="true"  android:layout\_marginRight="10dp"** >    </**Button**>   <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_below="@id/et1"  android:text="CANCEL"  android:layout\_toLeftOf="@id/btn1"  android:layout\_alignTop="@id/btn1"  android:layout\_marginRight="10dp"** >   </**Button**>     </**RelativeLayout**> |

**TableLayout**

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**TableLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="wrap\_content"   android:layout\_width="wrap\_content"**>    <**TableRow**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"**>  </**TextView**>  <**TextView android:layout\_height="100dp"  android:layout\_width="100dp"  android:text="2"  android:textSize="70sp"  android:gravity="center"**>  </**TextView**>  </**TableRow**>  <**TableRow**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"**>  </**TextView**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"**>  </**TextView**>  <**TextView android:layout\_height="100dp"  android:layout\_width="100dp"  android:text="3"  android:textSize="70sp"  android:gravity="center"**>  </**TextView**>  <**TextView android:layout\_height="100dp"  android:layout\_width="100dp"  android:text="4"  android:textSize="70sp"  android:gravity="center"**>  </**TextView**>  </**TableRow**>  <**TableRow**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"**>  </**TextView**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"**>  </**TextView**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"**>  </**TextView**>  <**TextView android:layout\_height="100dp"  android:layout\_width="100dp"  android:text="5"  android:textSize="70sp"  android:gravity="center"**>  </**TextView**>  <**TextView android:layout\_height="100dp"  android:layout\_width="100dp"  android:text="6"  android:textSize="70sp"  android:gravity="center"**>  </**TextView**>  </**TableRow**>  <**TableRow**>  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="GO"**></**Button**>    </**TableRow**>  *<!--  android:shrinkColumns="1,2"  android:stretchColumns="1"  android:collapseColumns="3"  -->  <!--  <Button  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"  android:text="按钮1">  </Button>  <TableRow>  <Button  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"  android:text="按钮2">  </Button>   <Button  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"  android:text="按钮3">  </Button>  <Button  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"  android:text="按钮4">  </Button>  <Button  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"  android:text="按钮5">  </Button>  <Button  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"  android:text="按钮6">  </Button>   </TableRow>  -->* </**TableLayout**> |

**GridLayout**

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**GridLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"  android:rowCount="6"  android:columnCount="4"** >  <**TextView  android:layout\_height="wrap\_content"  android:layout\_width="wrap\_content"  android:text="0"  android:textSize="50sp"  android:layout\_columnSpan="4"** ></**TextView**>  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="clear"  android:layout\_columnSpan="4"** ></**Button**>  <**Button android:text="1" android:textSize="26sp"**></**Button**>  <**Button android:text="2" android:textSize="26sp"**></**Button**>  <**Button android:text="3" android:textSize="26sp"**></**Button**>  <**Button android:text="+" android:textSize="26sp"**></**Button**>  <**Button android:text="4" android:textSize="26sp"**></**Button**>  <**Button android:text="5" android:textSize="26sp"**></**Button**>  <**Button android:text="6" android:textSize="26sp"**></**Button**>  <**Button android:text="-" android:textSize="26sp"**></**Button**>  <**Button android:text="7" android:textSize="26sp"**></**Button**>  <**Button android:text="8" android:textSize="26sp"**></**Button**>  <**Button android:text="9" android:textSize="26sp"**></**Button**>  <**Button android:text="\*" android:textSize="26sp"**></**Button**>  <**Button android:text="." android:textSize="26sp"**></**Button**>  <**Button android:text="0" android:textSize="26sp"**></**Button**>  <**Button android:text="=" android:textSize="26sp"**></**Button**>  <**Button android:text="/" android:textSize="26sp"**></**Button**> </**GridLayout**> |

布局文件的引入

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| **layout/layout\_text** |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Hello"**>  </**TextView**> </**LinearLayout**> |
| **Activity\_layout** |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="match\_parent"  android:layout\_width="match\_parent"  android:orientation="vertical"** >   <**include layout="@layout/layout\_text"**></**include**>  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="OK"**>  </**Button**>  </**LinearLayout**> |

控件

**Button/ImageButton**

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| <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="按钮"**/> <**ImageButton  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:src="@drawable/ic\_android\_black\_24dp"**/> <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="按钮"  android:drawableLeft="@drawable/ic\_android\_black\_24dp"**/> |

**ToggleButton**/**Switch**

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| <**ToggleButton  android:id="@+id/btn\_toggle"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:textOn="开"  android:textOff="关"** ></**ToggleButton**> <**Switch  android:id="@+id/btn\_switch"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:textOn="开"  android:textOff="关"** ></**Switch**> <**TextView  android:id="@+id/tv"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="hello"  android:textSize="20sp"  android:gravity="center"** ></**TextView**> |
| **package** com.example.andriodlearning;  **import** androidx.appcompat.app.AppCompatActivity;  **import** android.os.Bundle; **import** android.view.View; **import** android.widget.Switch; **import** android.widget.TextView; **import** android.widget.ToggleButton;  **public class** WidgetActivity **extends** AppCompatActivity {   TextView **tv**;   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_widget***);  **tv** = findViewById(R.id.***tv***);  ToggleButton btn\_t = findViewById(R.id.***btn\_toggle***);  Switch btn\_s = findViewById(R.id.***btn\_switch***);  btn\_t.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View v) {  **if**(((ToggleButton)v).isChecked()){  **tv**.setText(**"ToggleButton is ON"**);  }**else**{  **tv**.setText(**"ToggleButton is OFF"**);  }  }  });   btn\_s.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View v) {  **if**(((Switch)v).isChecked()){  **tv**.setText(**"Switch is ON"**);  }**else**{  **tv**.setText(**"Switch is OFF"**);  }  }  });  } } |

**RadioGroup&RadioButton**

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| <**TextView  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="请输入信息"  android:textSize="20sp"** ></**TextView**> <**EditText  android:id="@+id/name"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:inputType="text"  android:hint="输入姓名"  android:textSize="20sp"** ></**EditText**> <**RadioGroup  android:id="@+id/sex"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"**>   <**RadioButton  android:id="@+id/boy\_btn"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="男"  android:textSize="18sp"** ></**RadioButton**>  <**RadioButton  android:id="@+id/girl\_btn"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="女"  android:textSize="18sp"** ></**RadioButton**> </**RadioGroup**> <**Button  android:id="@+id/confirm\_button"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="确认"** ></**Button**> <**TextView  android:id="@+id/tv"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="hello"  android:textSize="20sp"  android:gravity="center"** ></**TextView**> |
| **package** com.example.andriodlearning;  **import** androidx.appcompat.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.View; **import** android.widget.Button; **import** android.widget.EditText; **import** android.widget.RadioButton; **import** android.widget.RadioGroup; **import** android.widget.TextView;  **public class** WidgetActivity **extends** AppCompatActivity {   TextView **tv**;  RadioButton **r1**;  RadioButton **r2**;  EditText **name**;  Button **confirm\_btn**;   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_widget***);  **tv** = findViewById(R.id.***tv***);  **r1** = findViewById(R.id.***boy\_btn***);  **r2** = findViewById(R.id.***girl\_btn***);  **name** = findViewById(R.id.***name***);  RadioGroup sex = findViewById(R.id.***sex***);  **confirm\_btn** = findViewById(R.id.***confirm\_button***);  **confirm\_btn**.setOnClickListener(**new** mClick());   sex.setOnCheckedChangeListener(**new** RadioGroup.OnCheckedChangeListener() {  @Override  **public void** onCheckedChanged(RadioGroup group, **int** checkedId) {  **tv**.setText(**"您输入的性别为："** + ((RadioButton)findViewById(checkedId)).getText());  }  });   }  **class** mClick **implements** View.OnClickListener{   @Override  **public void** onClick(View v) {  String inputName = **name**.getText().toString();  String sexs = **""**;  **if**(**r1**.isChecked()){  sexs = **r1**.getText().toString();  }  **if**(**r2**.isChecked()){  sexs = **r2**.getText().toString();  }  **tv**.setText(**"您输入的信息为：\n"** + **"姓名 "** + inputName + **"\n性别 "** + sexs);  }  } } |

**CheckBox**

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| <**TextView  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="请选择你喜欢的运动"  android:textSize="20sp"** ></**TextView**> <**CheckBox  android:id="@+id/checkbox1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="游泳"  android:textSize="20sp"** ></**CheckBox**> <**CheckBox  android:id="@+id/checkbox2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="跑步"  android:textSize="20sp"** ></**CheckBox**> <**CheckBox  android:id="@+id/checkbox3"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="打球"  android:textSize="20sp"** ></**CheckBox**> <**Button  android:id="@+id/confirm\_button"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="确认"  android:textSize="20sp"** ></**Button**>  <**TextView  android:id="@+id/tv"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="hello"  android:textSize="20sp"  android:gravity="center"** ></**TextView**> |
| **package** com.example.andriodlearning;  **import** androidx.appcompat.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.View; **import** android.widget.Button; **import** android.widget.CheckBox; **import** android.widget.TextView; **import** android.widget.Toast;  **public class** WidgetActivity **extends** AppCompatActivity {   TextView **tv**;  CheckBox **s1**,**s2**,**s3**;  Button **btn**;   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_widget***);  **tv** = findViewById(R.id.***tv***);  **s1** = findViewById(R.id.***checkbox1***);  **s2** = findViewById(R.id.***checkbox2***);  **s3** = findViewById(R.id.***checkbox3***);  **btn** = findViewById(R.id.***confirm\_button***);  **btn**.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View v) {  String str = **""** ;  **if**(**s1**.isChecked()) str += **"\n"** + **s1**.getText().toString();  **if**(**s2**.isChecked()) str += **"\n"** + **s2**.getText().toString();  **if**(**s3**.isChecked()) str += **"\n"** + **s3**.getText().toString();  **tv**.setText(**"您选择了："** + str);  }  });  **s1**.setOnClickListener(**new** mClick());  **s2**.setOnClickListener(**new** mClick());  **s3**.setOnClickListener(**new** mClick());  }    **class** mClick **implements** View.OnClickListener{  @Override  **public void** onClick(View v) {  **if**(((CheckBox)v).isChecked()){  Toast.*makeText*(WidgetActivity.**this**,((CheckBox)v).getText(),Toast.***LENGTH\_SHORT***).show();  }   }  } } |

Toast

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="match\_parent"  android:layout\_width="match\_parent"  android:orientation="vertical"  android:padding="5dp"  android:gravity="center"** >   <**Button  android:id="@+id/simpleToastBtn"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="默认效果"**/>  <**Button  android:id="@+id/differentPosToastBtn"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="更改位置"**/>  <**Button  android:id="@+id/pictureToastBtn"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="带图片"**/>  <**Button  android:id="@+id/customToastBtn"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="自定义"**/>   </**LinearLayout**> |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:id="@+id/customToastLayout"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:orientation="vertical"  android:background = "#ffffffff"** >  <**TextView  android:id="@+id/tvTitleToast"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_margin="1dp"  android:gravity="center"  android:textColor="@color/Darkblue"** >   </**TextView**>  <**LinearLayout  android:id="@+id/llToastContent"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_marginBottom="1dp"  android:layout\_marginLeft="1dp"  android:layout\_marginRight="1dp"  android:background="#aaa"  android:orientation="vertical"  android:padding="15dp"**>   <**ImageView  android:id="@+id/imgvToast"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="center"**/>  <**TextView  android:id="@+id/tvTextToast"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:gravity="center"  android:padding="10dp"  android:paddingRight="10dp"  android:textColor="@color/teal\_200"** />    </**LinearLayout**>  </**LinearLayout**> |
| **package** com.example.andriodlearning;  **import** androidx.appcompat.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.Gravity; **import** android.view.LayoutInflater; **import** android.view.View; **import** android.view.ViewGroup; **import** android.widget.Button; **import** android.widget.CheckBox; **import** android.widget.ImageView; **import** android.widget.LinearLayout; **import** android.widget.TextView; **import** android.widget.Toast;  **public class** WidgetActivity **extends** AppCompatActivity **implements** View.OnClickListener {   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_widget***);   findViewById(R.id.***simpleToastBtn***).setOnClickListener(**this**);  findViewById(R.id.***differentPosToastBtn***).setOnClickListener(**this**);  findViewById(R.id.***pictureToastBtn***).setOnClickListener(**this**);  findViewById(R.id.***customToastBtn***).setOnClickListener(**this**);    }   @Override  **public void** onClick(View v) {  Toast toast = **null**;  **switch** (v.getId()){  **case** R.id.***simpleToastBtn***:  Toast.*makeText*(getApplicationContext(),**"默认Toast样式"**,Toast.***LENGTH\_SHORT***).show();  **break**;  **case** R.id.***differentPosToastBtn***:  toast = Toast.*makeText*(getApplicationContext(),**"自定义Toast位置"**,Toast.***LENGTH\_SHORT***);  toast.setGravity(Gravity.***CENTER***,0,0);  toast.show();  **break**;  **case** R.id.***pictureToastBtn***:  toast = Toast.*makeText*(getApplicationContext(),**"带图片的Toast"**,Toast.***LENGTH\_LONG***);  LinearLayout toastView = (LinearLayout) toast.getView();  ImageView imageCodeProject = **new** ImageView(getApplicationContext());  imageCodeProject.setImageResource(R.drawable.***rem***);  toastView.addView(imageCodeProject);  toast.setGravity(Gravity.***CENTER***,0,0);  toast.show();  **break**;  **case** R.id.***customToastBtn***:  LayoutInflater inflater = getLayoutInflater();  View layout = inflater.inflate(R.layout.***customtoast***,(ViewGroup)findViewById(R.id.***customToastLayout***));   TextView title = layout.findViewById(R.id.***tvTitleToast***);  title.setText(**"Attention"**);   ImageView img = layout.findViewById(R.id.***imgvToast***);  img.setImageResource(R.drawable.***rem***);   TextView txt = layout.findViewById(R.id.***tvTextToast***);  txt.setText(**"自定义的Toast"**);   toast = **new** Toast(getApplicationContext());  toast.setGravity(Gravity.***RIGHT***|Gravity.***TOP***,12,40);  toast.setDuration(Toast.***LENGTH\_LONG***);  toast.setView(layout);  toast.show();  **break**;  }  } } |

**TextView**

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="match\_parent"  android:layout\_width="match\_parent"  android:orientation="vertical"** >  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="请注册"  android:maxLength="40"  android:textSize="20sp"** ></**TextView**>  <**EditText  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:maxLength="40"  android:hint="请输入用户名"  android:textColorHint="#654321"  android:imeOptions="actionGo"** ></**EditText**>  <**EditText  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:maxLength="40"  android:hint="请输入密码"  android:inputType="textPassword"  android:imeOptions="actionNext"** ></**EditText**>  <**EditText  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:maxLength="40"  android:hint="请输入电话号码"  android:inputType="phone"  android:imeOptions="actionSearch"** ></**EditText**>  <**EditText  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:maxLength="40"  android:hint="请输入数字"  android:inputType="numberSigned"  android:imeOptions="actionSend"** ></**EditText**>  <**EditText  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:maxLength="40"  android:hint="请输入日期"  android:inputType="date"  android:imeOptions="actionDone"** ></**EditText**>   </**LinearLayout**> |

**ImageView**

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="match\_parent"  android:layout\_width="match\_parent"  android:orientation="vertical"** >  <**ImageView  android:id="@+id/image"  android:layout\_width="200dp"  android:layout\_height="300dp"  android:scaleType="center"  android:src="@drawable/timg"** ></**ImageView**>  <**LinearLayout  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:orientation="horizontal"** >  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="center\_crop"  android:onClick="centerCrop"** />  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="center\_inside"  android:onClick="centerInside"** />   </**LinearLayout**>  <**LinearLayout  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:orientation="horizontal"** >  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="fit\_center"  android:onClick="fitCenter"** />  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="fit\_end"  android:onClick="fitEnd"** />  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="fit\_start"  android:onClick="fitStart"** />   </**LinearLayout**>  <**LinearLayout  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:orientation="horizontal"** >  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="fit\_xy"  android:onClick="fitXY"** />  <**Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="matrix"  android:onClick="matrix"** />   </**LinearLayout**> </**LinearLayout**> |
| **package** com.example.andriodlearning;  **import** androidx.appcompat.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.View; **import** android.widget.ImageView;   **public class** WidgetActivity **extends** AppCompatActivity {   ImageView **imageView**;   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_widget***);  **imageView** = findViewById(R.id.***image***);  }   **public void** centerCrop(View v){  **imageView**.setScaleType(ImageView.ScaleType.***CENTER\_CROP***);  }  **public void** centerInside(View v){  **imageView**.setScaleType(ImageView.ScaleType.***CENTER\_INSIDE***);  }  **public void** fitCenter(View v){  **imageView**.setScaleType(ImageView.ScaleType.***FIT\_CENTER***);  }  **public void** fitEnd(View v){  **imageView**.setScaleType(ImageView.ScaleType.***FIT\_END***);  }  **public void** fitStart(View v){  **imageView**.setScaleType(ImageView.ScaleType.***FIT\_START***);  }  **public void** fitXY(View v){  **imageView**.setScaleType(ImageView.ScaleType.***FIT\_XY***);  }  **public void** matrix(View v){  **imageView**.setScaleType(ImageView.ScaleType.***MATRIX***);  }  } |

**ProgressBar**

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_height="match\_parent"  android:layout\_width="match\_parent"  android:orientation="vertical"  android:paddingLeft="20dp"** >  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="普通圆形"** ></**TextView**>  <**ProgressBar  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"** ></**ProgressBar**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="大号圆形"** ></**TextView**>  <**ProgressBar  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  style="?android:attr/progressBarStyleLarge"** ></**ProgressBar**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="小号圆形"** ></**TextView**>  <**ProgressBar  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  style="?android:attr/progressBarStyleSmall"** ></**ProgressBar**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="标题型圆形"** ></**TextView**>  <**ProgressBar  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  style="?android:attr/progressBarStyleSmallTitle"** ></**ProgressBar**>  <**LinearLayout  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:orientation="vertical"** >  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="横向进度条"** ></**TextView**>  <**ProgressBar  android:id="@+id/progressBar"  android:layout\_width="300dp"  android:layout\_height="25dp"  android:max="100"  android:progress="0"  android:progressDrawable="@drawable/progress"  style="@android:style/Widget.ProgressBar.Horizontal"** ></**ProgressBar**>   </**LinearLayout**>  </**LinearLayout**> |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**layer-list xmlns:android="http://schemas.android.com/apk/res/android"**>  *<!--背景色-->* <**item android:id="@android:id/background"**>  <**shape**>  <**solid android:color="#f0f0f0"**></**solid**>  </**shape**>  </**item**>  *<!--进度条颜色-->* <**item android:id="@android:id/progress"**>  <**scale android:scaleWidth="100%" android:drawable="@drawable/progress\_color"**></**scale**>  </**item**> </**layer-list**> |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**shape xmlns:android="http://schemas.android.com/apk/res/android"**>  <**gradient  android:angle="180"  android:startColor="#00dbff"  android:endColor="#2f74fb"** ></**gradient**> </**shape**> |
| **package** com.example.andriodlearning;  **import** androidx.appcompat.app.AppCompatActivity; **import** android.os.Bundle; **import** android.os.Handler; **import** android.widget.ProgressBar;   **public class** WidgetActivity **extends** AppCompatActivity {   **private int i**=0;  **private** Handler **handler** = **new** Handler();  **private** Runnable **runnable** = **new** Runnable() {  @Override  **public void** run() {  **i**++;  **if**(**i** == 100){  **handler**.removeCallbacks(**this**);  }  **progressBar**.setProgress(**i**);  **handler**.postDelayed(**this**,100);  }  };  **private** ProgressBar **progressBar**;   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_widget***);  **progressBar** = findViewById(R.id.***progressBar***);  **handler**.postDelayed(**runnable**,100);  } } |

**Toolbar**

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| <**menu 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"  tools:context="com.example.menudemo.MainActivity"**>  <**item  android:id="@+id/action\_settings"  android:orderInCategory="100"  android:title="@string/action\_settings"  android:icon="@drawable/ic\_baseline\_settings\_24"  app:showAsAction="ifRoom"** />  <**item android:id="@+id/action\_help"  android:title="@string/action\_help"  android:orderInCategory="90"  android:icon="@drawable/ic\_baseline\_help\_24"  app:showAsAction="ifRoom|withText"**></**item**>  <**item android:id="@+id/action\_file"  android:title="@string/action\_file"  android:orderInCategory="95"  app:showAsAction="never"**>  <**menu**>  <**item android:id="@+id/action\_open" android:title="Open"**></**item**>  <**item android:id="@+id/action\_close" android:title="Close"**></**item**>   </**menu**>    </**item**>  </**menu**> |
| **package** com.example.menudemo;  **import** android.os.Bundle;  **import** com.google.android.material.floatingactionbutton.FloatingActionButton; **import** com.google.android.material.snackbar.Snackbar;  **import** androidx.appcompat.app.AppCompatActivity; **import** androidx.appcompat.widget.Toolbar;  **import** android.view.View;  **import** android.view.Menu; **import** android.view.MenuItem; **import** android.widget.TextView;  **public class** MainActivity **extends** AppCompatActivity {   TextView **tv**;   @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);  Toolbar toolbar = findViewById(R.id.***toolbar***);  setSupportActionBar(toolbar);   FloatingActionButton fab = findViewById(R.id.***fab***);  fab.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View view) {  Snackbar.*make*(view, **"Replace with your own action"**, Snackbar.***LENGTH\_LONG***)  .setAction(**"Action"**, **null**).show();  }  });  }   @Override  **public boolean** onCreateOptionsMenu(Menu menu) {  *// Inflate the menu; this adds items to the action bar if it is present.* getMenuInflater().inflate(R.menu.***menu\_main***, menu);  **return true**;  }   @Override  **public boolean** onOptionsItemSelected(MenuItem item) {  *// Handle action bar item clicks here. The action bar will  // automatically handle clicks on the Home/Up button, so long  // as you specify a parent activity in AndroidManifest.xml.* **int** id = item.getItemId();  **tv** = findViewById(R.id.***textview\_first***);  *//noinspection SimplifiableIfStatement* **if** (id == R.id.***action\_settings***) {  **tv**.setText(**"Settings菜单被选中"**);  **return true**;  }  **if** (id == R.id.***action\_help***) {  **tv**.setText(**"Help菜单被选中"**);  **return true**;  }  **if** (id == R.id.***action\_file***) {  **tv**.setText(**"File菜单被选中"**);  **return true**;  }  **if** (id == R.id.***action\_open***) {  **tv**.setText(**"Open菜单被选中"**);  **return true**;  }  **if** (id == R.id.***action\_close***) {  **tv**.setText(**"Close菜单被选中"**);  **return true**;  }    **return super**.onOptionsItemSelected(item);  } } |

三种显示Intent写法

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| Intent intent = **new** Intent(MainActivity.**this**,SecondActivity.**class**); startActivity(intent); |
| Intent intent = **new** Intent(); intent.setClassName(MainActivity.**this**,**"com.example.andriodlearning.SecondActivity"**); startActivity(intent); |
| Intent intent = **new** Intent(); ComponentName cname = **new** ComponentName(MainActivity.**this**,SecondActivity.**class**); intent.setComponent(cname); startActivity(intent); |