

Practical No 14

ListView

```
<?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"
    tools:context=".MainActivity">

    <ListView
        android:id="@+id/lang"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        tools:layout_editor_absoluteX="1dp"
        tools:layout_editor_absoluteY="1dp" />
</RelativeLayout>
```

MainActivity.java

```
package com.example.listviewshow;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;
import java.util.List;

public class MainActivity extends AppCompatActivity {
    ListView list ;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        list = (ListView)findViewById(R.id.lang);
        String prog[] = new String[]{
            "Android", "Java", "Php", "Hadoop", "Sap", "Python",
            "Ajax", "C++", "Ruby", "Rails", ".Net"
        };
        List<String> langlist = new ArrayList<String>(Arrays.asList(prog));
        ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,
            android.R.layout.simple_list_item_1, langlist);
        list.setAdapter(adapter);
        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<> parent, View view, int position, long id)
            {
                Toast.makeText(getApplicationContext(),
                    list.getItemAtPosition(position).toString(), Toast.LENGTH_SHORT).show();
            }
        });
    }
}
```

ImageView Change

```
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout 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"
    tools:context=".MainActivity">

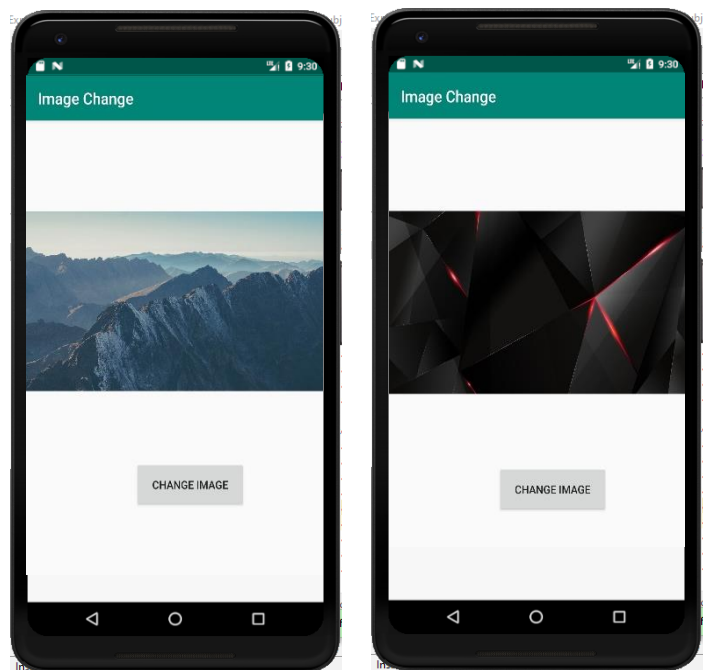
    <ImageView
        android:id="@+id/imageView"
        android:layout_width="match_parent"
        android:layout_height="251dp"
        android:layout_x="0dp"
        android:layout_y="101dp"
        android:src="@drawable/i2" />

    <Button
        android:id="@+id/btn"
        android:layout_width="149dp"
        android:layout_height="60dp"
        android:layout_x="147dp"
        android:layout_y="426dp"
        android:text="Change Image" />
</AbsoluteLayout>
```

MainActivity.java

```
package com.example.imagechange;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
```

```
public class MainActivity extends AppCompatActivity {
    boolean i = true;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final ImageView img = (ImageView)findViewById(R.id.imageView);
        final Button btn = (Button)findViewById(R.id.btn);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(i){
                    img.setImageResource(R.drawable.i1);
                    i = false;
                }
                else{
                    img.setImageResource(R.drawable.i2);
                    i = true;
                }
            }
        });
    }
}
```



Vertical Scroll view

```
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout 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"
    tools:context=".MainActivity">

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="297dp"
        android:layout_x="0dp"
        android:layout_y="213dp">

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

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:textSize="30dp"
                android:text="TextView" />

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginTop="300dp"
                android:text="TextView" />

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginTop="300dp"
                android:text="TextView" />

        </LinearLayout>
    </ScrollView>

</AbsoluteLayout>
```

