

8. ImageSwitcher

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="horizontal"
    android:gravity="center"
    tools:context=".MainActivity">

    <ImageButton
        android:layout_width="50dp"
        android:layout_height="80dp"
        android:id="@+id/bt_previous"
        android:background="@android:color/transparent"
        android:src="@drawable/ic_navigate_before"/>

    <ImageSwitcher
        android:layout_width="350dp"
        android:layout_height="350dp"
        android:id="@+id/image_switcher"/>

    <ImageButton
        android:layout_width="50dp"
        android:layout_height="80dp"
        android:id="@+id/bt_next"
        android:background="@android:color/transparent"
        android:src="@drawable/ic_navigate_next"/>

</LinearLayout>
```

MainActivity.java

```
package com.example.imageswitcherdemo;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.ImageButton;
import android.widget.ImageSwitcher;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.ViewSwitcher;

public class MainActivity extends AppCompatActivity
{
    ImageButton btPrevious, btNext;
    ImageSwitcher imageSwitcher;

    int imageList[] =
    {R.drawable.one, R.drawable.two, R.drawable.three, R.drawable.four, R.drawable.five, R.
    drawable.six};
    int count = imageList.length;
    int currentIndex = 0;

    @Override
```

```

protected void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    btPrevious = findViewById(R.id.bt_previous);
    btNext = findViewById(R.id.bt_next);
    imageSwitcher = findViewById(R.id.image_switcher);

    imageSwitcher.setFactory(new ViewSwitcher.ViewFactory()
    {
        @Override
        public View makeView()
        {
            ImageView imageView = new ImageView(getApplicationContext());
            imageView.setScaleType(ImageView.ScaleType.FIT_CENTER);
            imageView.setLayoutParams(new
ImageSwitcher.LayoutParams(LinearLayout.LayoutParams.FILL_PARENT,
LinearLayout.LayoutParams.FILL_PARENT));
            return imageView;
        }
    });
    imageSwitcher.setImageResource(imageList[0]);

    btPrevious.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View v)
        {
            imageSwitcher.setInAnimation(MainActivity.this, R.anim.from_right);
            imageSwitcher.setOutAnimation(MainActivity.this, R.anim.to_left);
            --currentIndex;
            if(currentIndex < 0)
                currentIndex = imageList.length-1;
            imageSwitcher.setImageResource(imageList[currentIndex]);
        }
    });

    btNext.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View v)
        {
            imageSwitcher.setInAnimation(MainActivity.this, R.anim.from_left);
            imageSwitcher.setOutAnimation(MainActivity.this, R.anim.to_right);
            currentIndex++;
            if(currentIndex == count)
                currentIndex = 0;
            imageSwitcher.setImageResource(imageList[currentIndex]);
        }
    });
}
}

```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.imageswitcherdemo">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

from right.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:shareInterpolator="false">
    <translate android:fromXDelta="100%" android:toXDelta="0%"
        android:fromYDelta="0%" android:toYDelta="0%" android:duration="250"/>
</set>
```

to left.xml

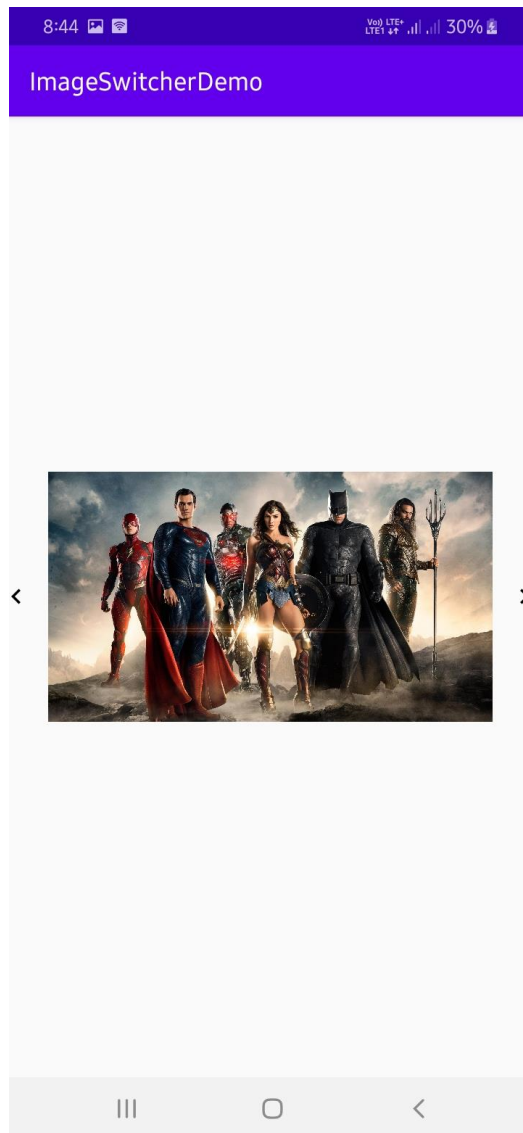
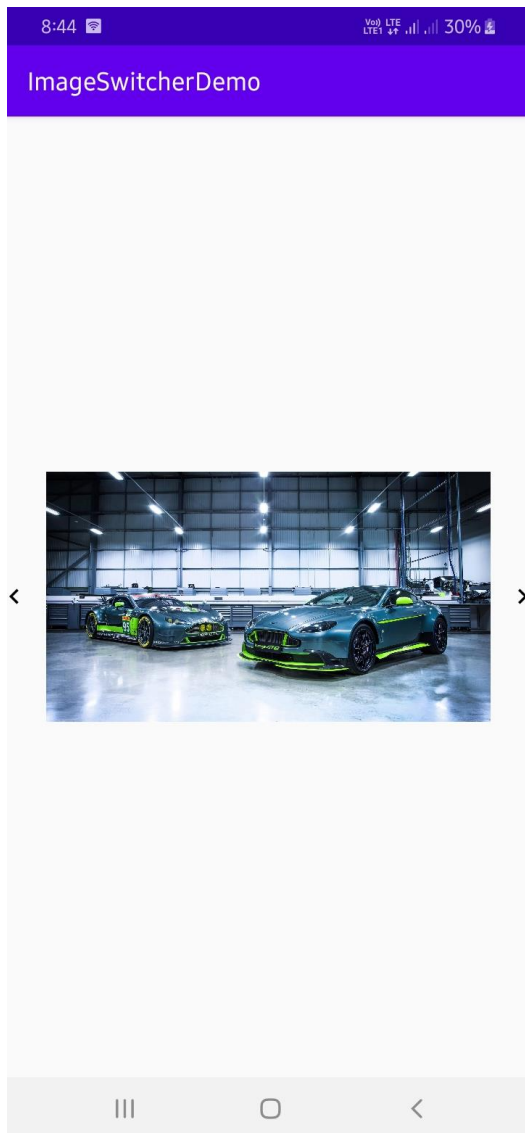
```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:shareInterpolator="false">
    <translate android:fromXDelta="0%" android:toXDelta="-100%"
        android:fromYDelta="0%" android:toYDelta="0%" android:duration="250"/>
</set>
```

from left.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:shareInterpolator="false">
    <translate android:fromXDelta="-100%" android:toXDelta="0%"
        android:fromYDelta="0%" android:toYDelta="0%" android:duration="250"/>
</set>
```

to right.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:shareInterpolator="false">
    <translate android:fromXDelta="0%" android:toXDelta="100%"
        android:fromYDelta="0%" android:toYDelta="0%" android:duration="250"/>
</set>
```



8:44

Vodafone LTE+ 30%

ImageSwitcherDemo

