

Program 9

Demonstrate ImageView and GridView

Activitymain.xml

```
<?xml version="1.0" encoding="utf-8"?>

<GridView

xmlns:android="http://schemas.android.com/apk/res/androi
d"    android:id="@+id/gridview"
android:layout_width="fill_parent"
android:layout_height="fill_parent"
android:columnWidth="120dp"
android:numColumns="3"
android:verticalSpacing="10dp"
android:horizontalSpacing="10dp"
android:stretchMode="columnWidth"
android:gravity="center" />
```

Mainactivity.java

```
Package com.example.gridview;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
```

```

import android.widget.AdapterView;
import android.widget.GridView;

public class MainActivity extends Activity {
    @Override protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        GridView gridview = (GridView)
findViewById(R.id.gridview); gridview.setAdapter(new

ImageAdapter(this));

        gridview.setOnItemClickListener(
new
        AdapterView.OnItemClickListener
r() {    public void
onItemClick(AdapterView<?>
                parent, View v,
int                position,
long id) {

            Intent i = new Intent(getApplicationContext(),
SingleViewActivity.class);

```

```
        i.putExtra("id", position);
startActivity(i);

    }
});
}
}
```

Activity single view.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical" >

    <ImageView android:id="@+id/SingleView"
android:layout_width="fill_parent"
android:layout_height="fill_parent"/>

</LinearLayout>
```

SingleViewActivity.java

Package

com.example.gridview;

import

android.app.Activity;

import

android.content.Intent;

import android.os.Bundle;

import

android.widget.ImageView;

public class SingleViewActivity extends Activity {

 @Override public

void onCreate(Bundle

 savedInstanceState) {

 super.onCreate(savedInstanceState);

 setContentView(R.layout.single_view);

 Intent i = getIntent();

 int position =

 i.getExtras().getInt("id");

```
        ImageAdapter imageAdapter = new
            ImageAdapter(this);

        ImageView imageView = (ImageView)
            findViewById(R.id.SingleView);

        imageView.setImageResource(imageAdapter.picIds[position]
        );
    }
}
```

ImageAdaptor.java

```
package com.example.gridview;

import
    android.content.Context;
import android.view.View;
import
    android.view.ViewGroup;
import
    android.widget.BaseAdapter;
import
    android.widget.GridView;
```

```
import
android.widget.ImageView;

class ImageAdapter extends
BaseAdapter {    private Context
mContext;

    public ImageAdapter(Context c)
    {
        mContext = c;

    }

    public int getCount()
    {
        return
picIds.length;

    }

    public Object getItem(int position) {
        return null;
    }
    public long getItemId(int position) {

        return 0;
    }
}
```

```

public View getView(int position, View
convertView, ViewGroup parent) {

    ImageView imageView;

    if (convertView == null) {
        imageView = new ImageView(mContext);
imageView.setLayoutParams(new

        GridView.LayoutParams(85, 85));

imageView.setScaleType(ImageView.ScaleType.CENTER_C
ROP);        imageView.setPadding(8, 8, 8, 8);

    }
    else
    {
        imageView = (ImageView) convertView;
    }

imageView.setImageResource(picIds[position
]);    return imageView;

```

```
}
```

```
array    public Integer[]
```

```
picIds = {
```

```
    R.drawable.sample2,
```

```
    R.drawable.sample3,
```

```
    R.drawable.sample4,
```

```
    R.drawable.sample5,
```

```
    R.drawable.sample6,
```

```
    R.drawable.sample7,
```

```
    R.drawable.sample0,
```

```
    R.drawable.sample1,
```

```
    R.drawable.sample2,
```

```
    R.drawable.sample3,
```

```
    R.drawable.sample4,
```

```
    R.drawable.sample5,
```

```
    R.drawable.sample6,
```

```
    R.drawable.sample7,
```

```
    R.drawable.sample0,
```

```
    R.drawable.sample1,
```

```
    R.drawable.sample2,
```

```
    R.drawable.sample3,
```

```
    R.drawable.sample4,
```

```
    R.drawable.sample5,
```


R.drawable.sample6,

R.drawable.sample7,

R.drawable.sample0, R.drawable.sample1

};

}

Output



