

Checkers

Create this screen in Android. I am going to provide the pictures AND the code. It is just a matter of opening a new Android file correctly and setting up the code.



The XML File (You can cut and paste this one)

```
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="#000000"
android:orientation="vertical">

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:padding="30dp"
    android:text="Checkers"
    android:textColor="#FF1010"
    android:layout_gravity="center_horizontal"
    android:textSize="20dp" />

<GridLayout
    android:id="@+id/grid"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_gravity="center"
    android:columnCount="8"
    android:rowCount="8"></GridLayout>

</LinearLayout>
```

The Java File (Do NOT cut and paste, leave the highlighted section alone)

Repeat: Do NOT cut and paste .

Leave the highlighted sections – already created in the code – alone.

```
package com.example.p0064140.checkers;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.GridLayout;
import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {

    int checker[][] = {{1, 4, 1, 4, 1, 4, 1, 4},
        {4, 1, 4, 1, 4, 1, 4, 1},
        {1, 4, 1, 4, 1, 4, 1, 4},
        {4, 3, 4, 3, 4, 3, 4, 3},
        {3, 4, 3, 4, 3, 4, 3, 4},
        {4, 2, 4, 2, 4, 2, 4, 2},
        {2, 4, 2, 4, 2, 4, 2, 4},
        {4, 2, 4, 2, 4, 2, 4, 2}};

    int row = 8;
    int col = 8;
    ImageView pics[] = new ImageView[row * col];
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    GridLayout g = (GridLayout) findViewById(R.id.grid);
    int m = 0;
    for (int i = 0; i < row; i++) {
        for (int j = 0; j < col; j++) {
            pics[m] = new ImageView(this);
            setpicStart(pics[m], m);
            pics[m].setId(m);
            g.addView(pics[m]);
            m++;
        }
    }
} //Close for onCreate
```

```
public void setpicStart(ImageView i, int pos){
    int x = pos/col;
    int y = pos%col;
    int picnum = checker[x][y];
    if(picnum==1)
        i.setImageResource(R.drawable.check1);
    else if(picnum==2)
        i.setImageResource(R.drawable.check2);
    else if(picnum==3)
        i.setImageResource(R.drawable.check3);
    else if(picnum==4)
        i.setImageResource(R.drawable.check4);
}
```

```
} //Close for class
```