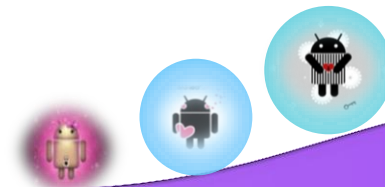




어덱터 뷰



리스트뷰와 갤러리



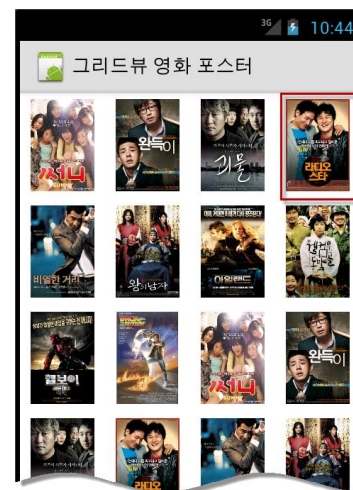
1. 그리드뷰

[실습] 영화 포스터 보기 1

- ❖ 그리드뷰를 이용해서 여러 사진(영화 포스터)을 격자 모양으로 배치하자. 영화포스터를 클릭하면 확대된 포스터가 대화상자로 나온다.

프로젝트 정보

- ✓ Application Name: GridView01
- ✓ Minimum SDK : API 16
- ✓ Add an activity to Mobile: Blank Activity
- ✓ Activity Name: MainActivity
- ✓ Layout Name: activity_main
- ✓ Title: MainActivity
- ✓ Menu Resource Name: menu_main

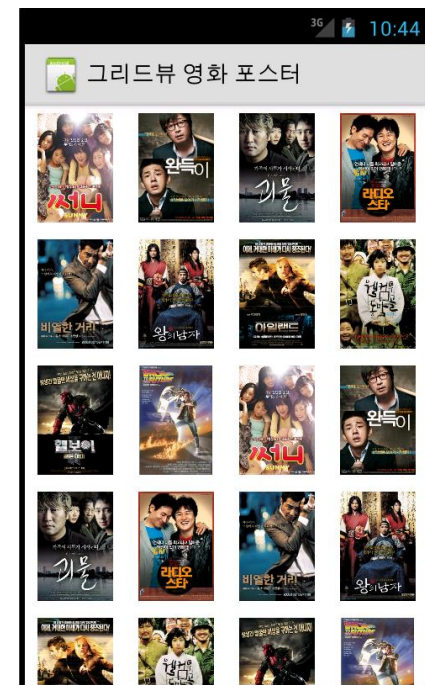
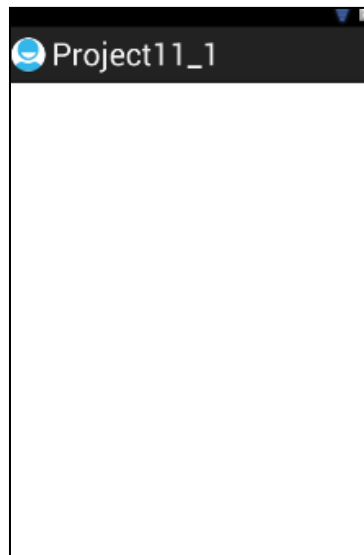
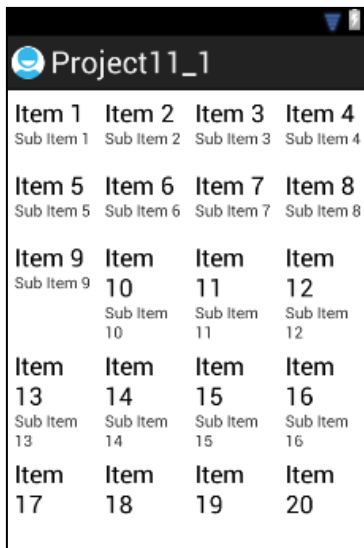


❖ 화면 디자인

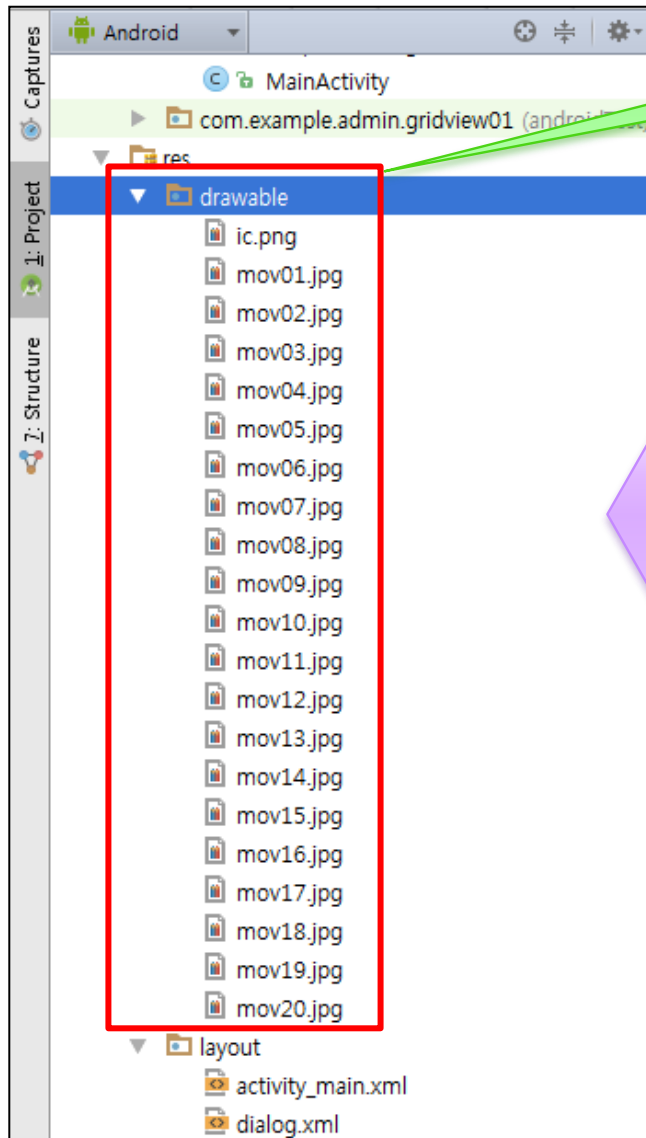
- ✓ main.xml에 그리드뷰를 하나 추가
- ✓ 큰 포스트용 dialog.xml 추가

[res]→[layout] 폴더 오른쪽 마우스 클릭 후 [new]→[XML]→ [Layout XML File]클릭 하여 생성

- ✓ 영화 포스터로 사용할 이미지 10개(mov01~mov20)를 /res/drawable에 복사



1. 이미지 파일을
"drawable"에 복사

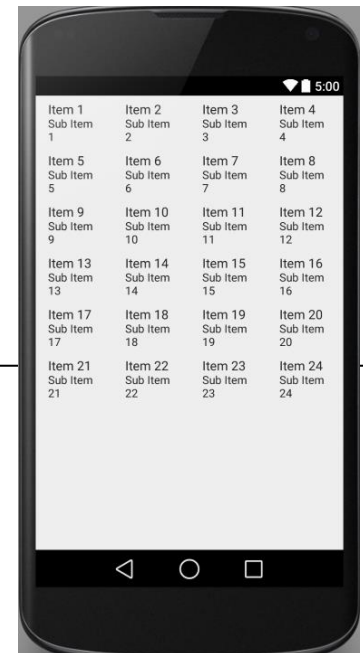


2.코딩

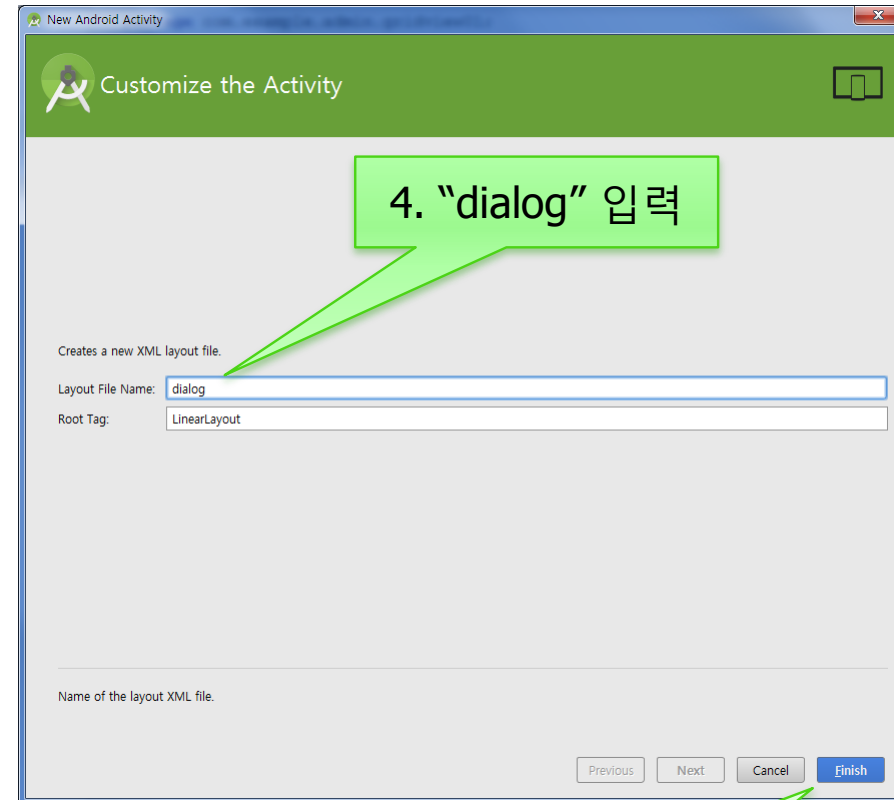
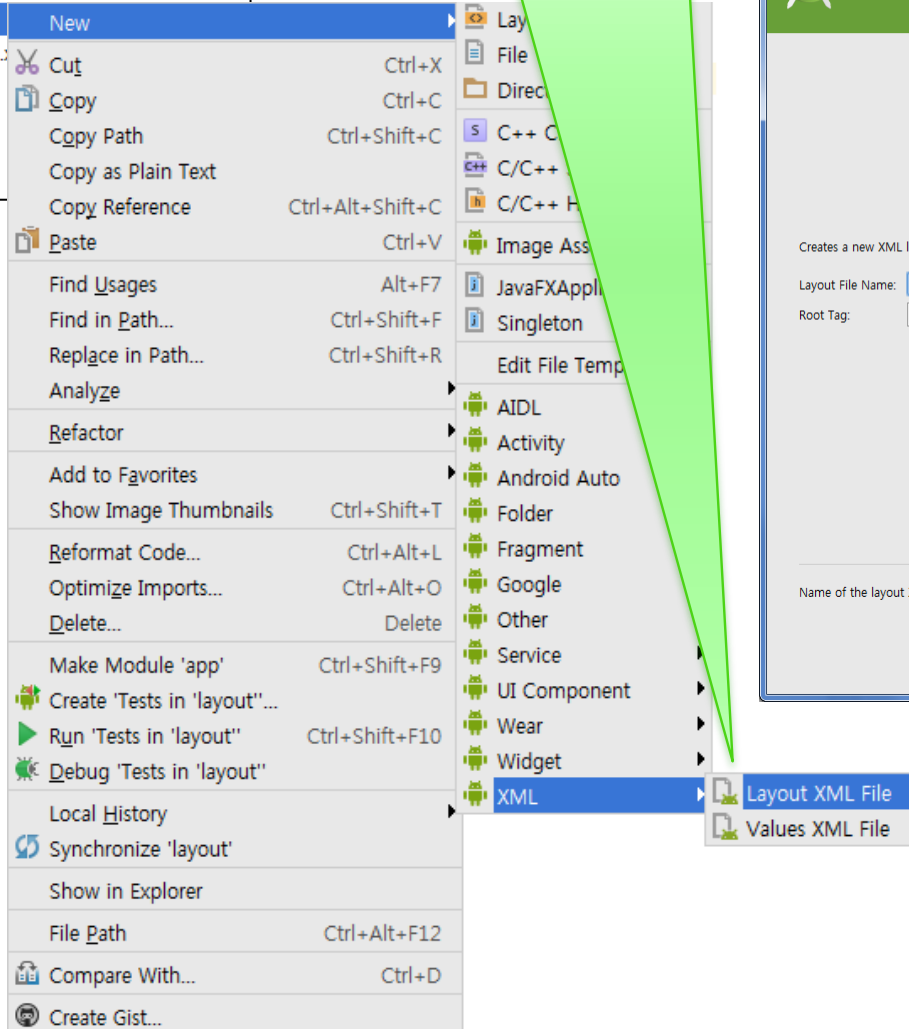
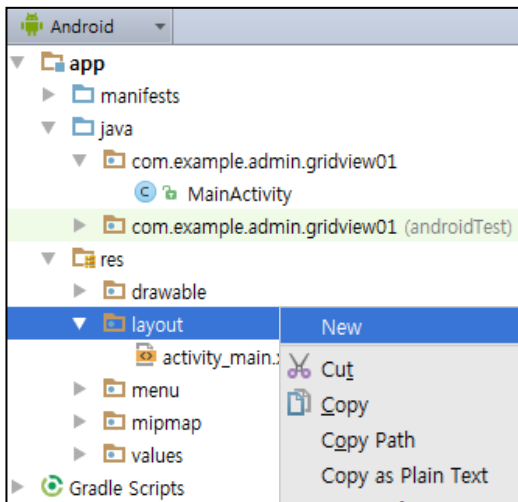
```
activity_main.xml x
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <GridView
        android:id="@+id/gridView01"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:numColumns="4" />

</LinearLayout>
```



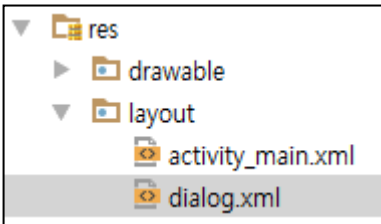
3. [layout]→[New]→[XML]→[Layout XML File] 클릭



4. "dialog" 입력

5. 클릭

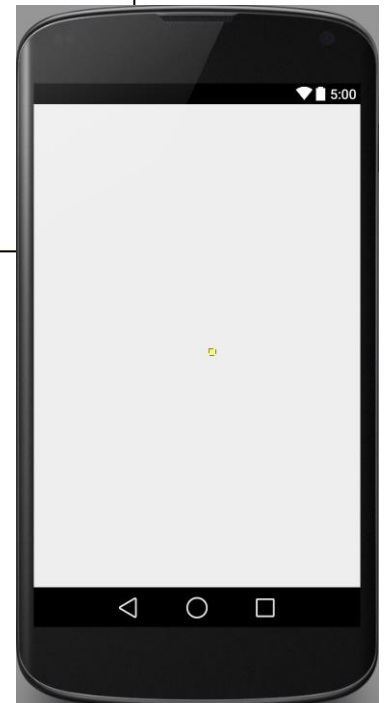
6. 코딩



```
dialog.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:gravity="center"
    android:orientation="vertical">

    <ImageView
        android:id="@+id/ivPoster"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />

</LinearLayout>
```



```
MainActivity.java x
1 package com.example.admin.gridview01;
2
3 import ...
4
5
6
7 public class MainActivity extends AppCompatActivity {
8
9     @Override
10    protected void onCreate(Bundle savedInstanceState) {
11        super.onCreate(savedInstanceState);
12        setContentView(R.layout.activity_main);
13
14        setTitle("그리드뷰 영화 포스터");
15
16        final GridView gv = (GridView) findViewById(R.id.gridView01);
17        MyGridAdapter gAdapter = new MyGridAdapter(this);
18        gv.setAdapter(gAdapter);
19    }
20 }
21 }
```

어댑터 생성하여
그리드뷰에 적용

참고: MyGridAdapter 는 아직 구현되지
않아서 에러 표시됨

7. 코딩

```
1 package com.example.admin.gridview01;
2
3 import ...
4
5
6
7
8 public class MainActivity extends AppCompatActivity {
9
10     @Override
11     protected void onCreate(Bundle savedInstanceState) {
12         super.onCreate(savedInstanceState);
13         setContentView(R.layout.activity_main);
14
15         setTitle("그리드뷰 영화 포스터");
16
17         final GridView gv = (GridView) findViewById(R.id.gridView01);
18         MyGridAdapter gAdapter = new MyGradAdapter(this);
19         gv.setAdapter(gAdapter);
20
21     }
22
23 public class MyGridAdapter extends BaseAdapter{
24
25
26
27 }
```

9. 클릭

Implement methods

Make 'MyGridAdapter' abstract

Create Test

Create subclass

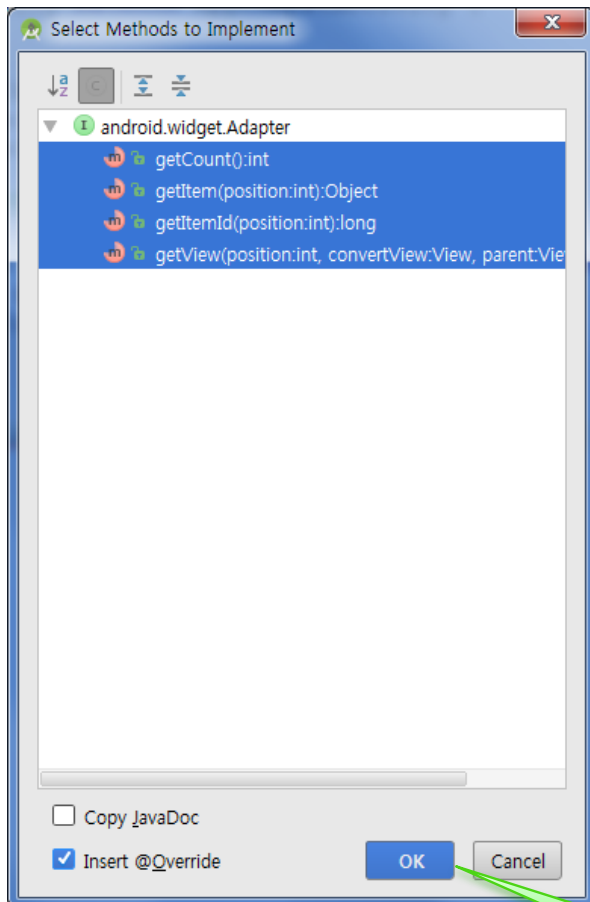
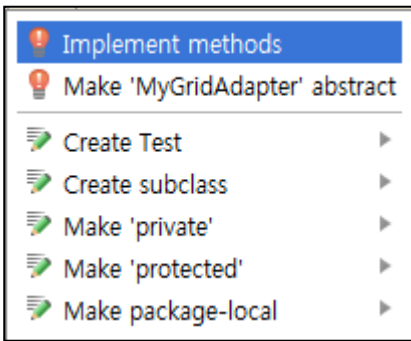
Make 'private'

Make 'protected'

Make package-local

10. 클릭

8. 코딩



11. 클릭

```
25  
26 public class MyGridAdapter extends BaseAdapter{  
27  
28     @Override  
29     public int getCount() {  
30         return 0;  
31     }  
32  
33     @Override  
34     public Object getItem(int position) {  
35         return null;  
36     }  
37  
38     @Override  
39     public long getItemId(int position) {  
40         return 0;  
41     }  
42  
43     @Override  
44     public View getView(int position, View convertView, ViewGroup parent) {  
45         return null;  
46     }  
47 }
```

12. 추가 확인

```
public class MyGridAdapter extends BaseAdapter {
```

```
    Context context;
```

```
    public MyGridAdapter(Context c) {  
        context = c;  
    }
```

```
    @Override
```

```
    public int getCount() {  
        return posterID.length;
```

```
    @Override
```

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

```
    @Override
```

```
    public long getItemId(int position) {  
        return 0;  
    }
```

```
    Integer[] posterID = {R.drawable.mov01, R.drawable.mov02,  
        R.drawable.mov03, R.drawable.mov04, R.drawable.mov05,  
        R.drawable.mov06, R.drawable.mov07, R.drawable.mov08,  
        R.drawable.mov09, R.drawable.mov10, R.drawable.mov11,  
        R.drawable.mov12, R.drawable.mov13, R.drawable.mov14,  
        R.drawable.mov15, R.drawable.mov16, R.drawable.mov17,  
        R.drawable.mov18, R.drawable.mov19, R.drawable.mov20};
```

12. 코딩

이미지 개수 리턴

13. 수정

14. 코딩

이미지id를 배열로 관리

```
@Override
public View getView(int position, View convertView, ViewGroup parent) {
    ImageView imageview = new ImageView(context);
    imageview.setLayoutParams(new GridView.LayoutParams(100, 150));
    imageview.setScaleType(ImageView.ScaleType.FIT_CENTER);
    imageview.setPadding(5, 5, 5, 5);

    imageview.setImageResource.posterID[position]);

    final int pos = position;
    imageview.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            View dialogView = (View) View.inflate(MainActivity.this,
                R.layout.dialog, null);
            AlertDialog.Builder dlg = new AlertDialog.Builder(
                MainActivity.this);
            ImageView ivPosster =
                (ImageView) dialogView.findViewById(R.id.ivPoster);
            ivPosster.setImageResource.posterID[pos]);
            dlg.setTitle("큰 포스터");
            dlg.setIcon(R.drawable.ic);
            dlg.setView(dialogView);
            dlg.setNegativeButton("닫기", null);
            dlg.show();
        }
    });
    return imageview;
}
```

@Override

```
public View getView(int position, View convertView, ViewGroup parent) {
    ImageView imageview = new ImageView(context);
    imageview.setLayoutParams(new GridView.LayoutParams(100, 150));
    imageview.setScaleType(ImageView.ScaleType.FIT_CENTER);
    imageview.setPadding(5, 5, 5, 5);

    imageview.setImageResource(posterID[position]);

    final int pos = position;
    imageview.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {

            View dialogView = (View) View.inflate(MainActivity.this,
                R.layout.dialog, null);
            AlertDialog.Builder dlg = new AlertDialog.Builder(
                MainActivity.this);
            ImageView ivPosster =
                (ImageView) dialogView.findViewById(R.id.ivPoster);
            ivPosster.setImageResource(posterID[pos]);
            dlg.setTitle("큰 포스터");
            dlg.setIcon(R.drawable.ic);
            dlg.setView(dialogView);
            dlg.setNegativeButton("닫기", null);
            dlg.show();

        }
    });
    return imageview;
}
```

이미지뷰 변수 생성

이미지뷰 크기 지정

이미지뷰를 그리드
뷰 중앙에 배치

Padding 설정

이미지뷰에 영화 포
스터 적용

다이얼로그뷰 생성

이미지뷰에 클릭한
포스터의 ID 설정

클릭



2. 갤러리

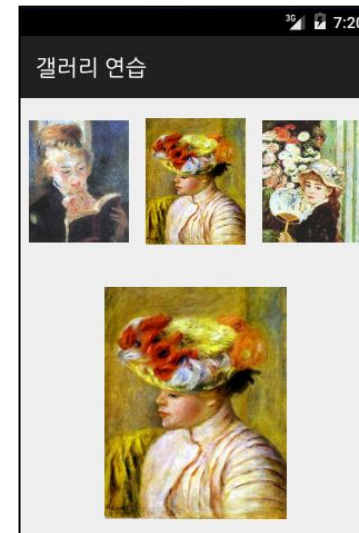


[실습11-2] 영화 포스터 보기 2

- ❖ 갤러리를 영화 포스터 보기를 이용해서 작성한다.
- ❖ 영화 포스터를 클릭하면 아래쪽 이미지뷰에 확대된 영화 포스터가 나오게 한다.

프로젝트 정보

- ✓ Application Name: Gallerry01
- ✓ Minimum SDK : API 16
- ✓ Add an activity to Mobile: Blank Activity
- ✓ Activity Name: MainActivity
- ✓ Layout Name: activity_main
- ✓ Title: MainActivity
- ✓ Menu Resource Name: menu_main



1. 코딩

```
activity_main.xml x
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

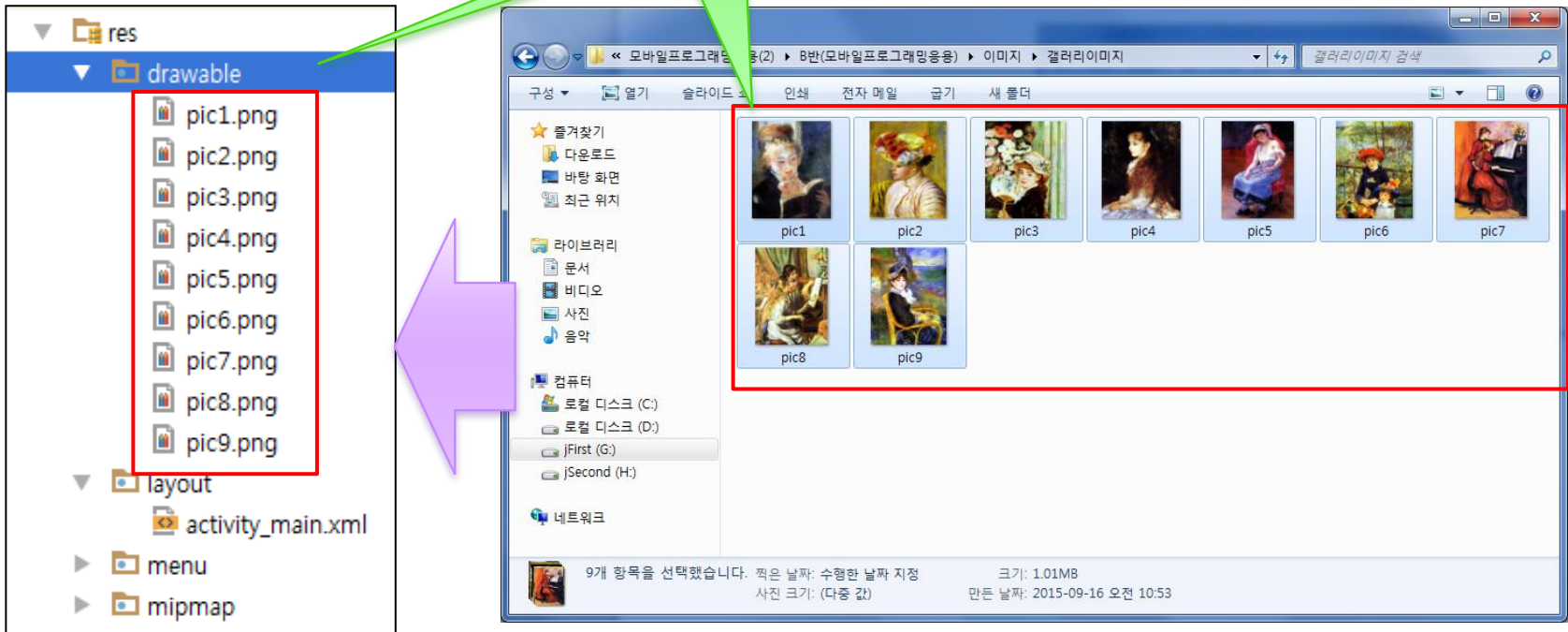
    <Gallery
        android:id="@+id/gallery01"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:spacing="5dp" />

    <ImageView
        android:id="@+id/ivPoster"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:padding="20dp" />

</LinearLayout>
```

이미지 여백(갤러리 여백)

2. 이미지 복사



```
1 package com.example.admin.galley01;
2
3 import android.os.Bundle;
4 import android.support.v7.app.AppCompatActivity;
5 import android.view.View;
6 import android.view.ViewGroup;
7 import android.widget.BaseAdapter;
8 import android.widget.Gallery;
9 import android.widget.ImageView;
10
11 public class MainActivity extends AppCompatActivity {
12
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_main);
17
18         setTitle("갤러리 연습");
19
20         Gallery gallery = (Gallery) findViewById(R.id.gallery01);
21
22         MyGalleryAdapter galAdapter = new MyGalleryAdapter(this);
23         gallery.setAdapter(galAdapter);
24
25     }
26
27     public class MyGalleryAdapter extends BaseAdapter{
28
29     }
30
31 }
```

3. 추후 확인

4. 코딩

5. 클릭

```
26
27 public class MyGalleryAdapter extends BaseAdapter{
28
29
30
31
32
```

Implement methods

Make 'MyGalleryAdapter' abstract

Create Test

Create subclass

Add Javadoc

Make 'private'

Make 'protected'

Make package-local

Adapter' must either be declared abstract or implement

Select Methods to Implement

android.widget.Adapter

- getCount():int
- getItem(position:int):Object
- getItemId(position:int):long
- getView(position:int, convertView:View, parent:ViewGroup):View

Copy Javadoc

Insert @Override

OK

Cancel


6. 클릭

```
27 public class MyGalleryAdapter extends BaseAdapter{
28
29     @Override
30     public int getCount() {
31         return 0;
32     }
33
34     @Override
35     public Object getItem(int position) {
36         return null;
37     }
38
39     @Override
40     public long getItemId(int position) {
41         return 0;
42     }
43
44     @Override
45     public View getView(int position, View convertView, ViewGroup parent) {
46         return null;
47     }
48 }
```

8. 추가 확인

7. 클릭

```
26
27 public class MyGalleryAdapter extends BaseAdapter{
28
29     Context context;
30     Integer[] posterID = {R.drawable.pic1, R.drawable.pic2,
31         R.drawable.pic3, R.drawable.pic4, R.drawable.pic5,
32         R.drawable.pic6, R.drawable.pic7, R.drawable.pic8,
33         R.drawable.pic9};
34
35     public MyGalleryAdapter(Context c) {
36         context = c;
37     }
38
39     @Override
40     public int getCount() {
41         return posterID.length;
42     }
43
44     @Override
45     public Object getItem(int position) {
46         return null;
47     }
48
49     @Override
50     public long getItemId(int position) {
51         return 0;
52     }
53
54     @Override
55     public View getView(int position, View convertView, ViewGroup parent) {
56         return null;
57     }
58 }
59
60 }
```



9. 코딩

10. 코딩

```
55 @Override
56 public View getView(int position, View convertView, ViewGroup parent) {
57     ImageView imageView = new ImageView(context);
58     imageView.setLayoutParams(new Gallery.LayoutParams(100, 150));
59     imageView.setScaleType(ImageView.ScaleType.FIT_CENTER);
60     imageView.setPadding(5, 5, 5, 5);
61     imageView.setImageResource.posterID[position]);
62
63     final int pos = position;
64     imageView.setOnClickListener(new View.OnClickListener());
65     return null;
66 }
```

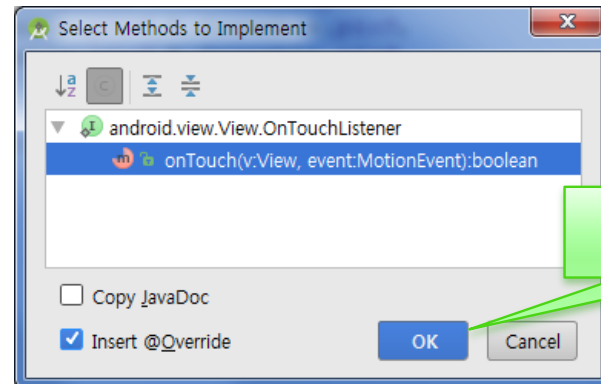
11. 클릭

```
63 final int pos = position;
64 imageView.setOnClickListener(new View.OnClickListener());
```

Implement methods

Add import for 'android.view.View.OnClickListener'

12. 클릭



13. 클릭

```

56
57
58
59
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73
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75
76
77
78

```

```

@Override
public View getView(int position, View convertView, ViewGroup parent) {
    ImageView imageview = new ImageView(context);
    imageview.setLayoutParams(new Gallery.LayoutParams(100,150));
    imageview.setScaleType(ImageView.ScaleType.FIT_CENTER);
    imageview.setPadding(5,5,5,5);
    imageview.setImageResource.posterID[position]);

    final int pos = position;
    imageview.setOnTouchListener(new View.OnTouchListener() {
        @Override
        public boolean onTouch(View v, MotionEvent event) {
            ImageView ivPoster = (ImageView)findViewById(R.id.ivPoster);
            ivPoster.setScaleType(ImageView.ScaleType.FIT_CENTER);
            ivPoster.setImageResource.posterID[pos]);
            return false;
        }
    });
    return imageview;
}

```

14. 코딩

15. 클릭

