

Mobile Programming

Android Programming

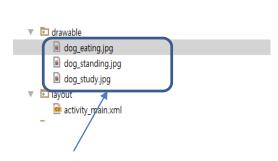
Chap 7. Thread

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Set Layout!



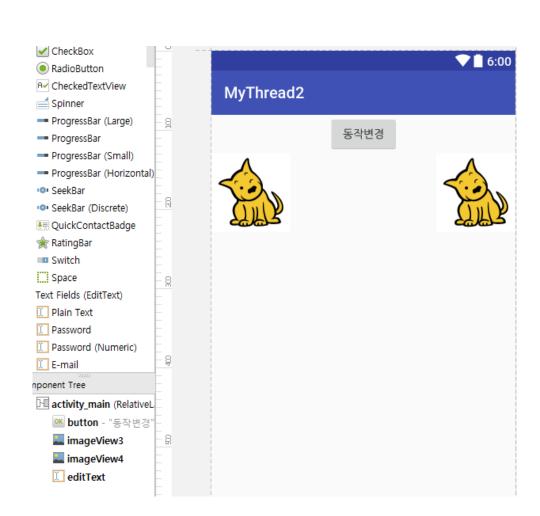
Add three images













package org.androidtown.listview.mythread2;

import android.os.Bundle;

import android.os.Handler;

MainActivity.java

```
import android.support.v7.app.AppCompatActivity;
                                                                import android.view.View;
public class MainActivity extends AppCompatActivity {
                                                                import android.widget.Button;
   ImageView imageView1;
                                                                import android.widget.EditText;
    ImageView imageView2;
                                                                import android.widget.ImageView;
    EditText editText:
                                                                import java.util.ArrayList;
   Button button;
   Handler handler = new Handler();
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        imageView1 = (ImageView) findViewById(R.id.imageView1);
        imageView2 = (ImageView) findViewById(R.id.imageView2);
        editText = (EditText) findViewById(R.id.editText);
        button = (Button) findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener(){
            @Override
            public void onClick(View v){
                DogThread thread1 = new DogThread(0);
                DogThread thread2 = new DogThread(1);
        });
```



MainActivity.java- Design DogThread

```
class DogThread extends Thread{
   ArrayList<Integer> images = new ArrayList<Integer>();
    public DogThread(int index){
        images.add(R.drawable.dog eating);
        images.add(R.drawable.dog standing);
        images.add(R.drawable.dog study);
                Put run method! (Next Page)
```





MainActivity.java - Run method in DogThread

```
public void run() {
    for (int i = 0; i < 9; i++) {
        final String msg = "dog #" + dogIndex + " state: " + stateIndex;
                public void run() {
                    editText.append(msg + "\n");
                        imageView1.setImageResource(images.get(stateIndex));
                        imageView2.setImageResource(images.get(stateIndex));
                }});
            int sleepTime = getRandomTime(500, 3000);
            Thread.sleep(sleepTime);
        } catch (InterruptedException e) {
            e.printStackTrace();
        stateIndex++;
        if (stateIndex >= images.size()) {
```



 MainActivity.java – Add getRandomTime in DogThread

```
public int getRandomTime(int min, int max){
    return min+(int)(Math.random() * (max-min));
}
}
```

RUN!!



