# 1 다운, 환경설정

2018년 10월 29일 월요일 오전 10:05

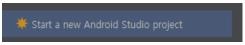


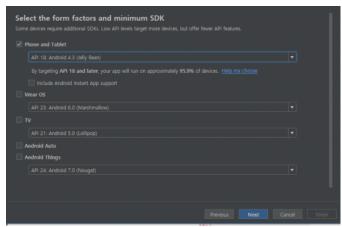
검색결과 약 841,000개 (0.20초)

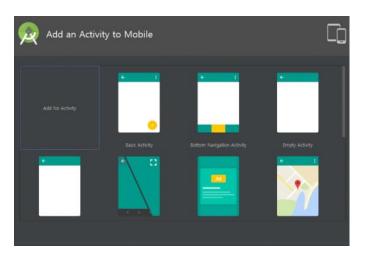
# Genymotion Android Emulator | Cloud-based Android virtual devices ...

https://www.genymotion.com/ ▼ 이 페이지 번역하기

Cross-platform Android emulator for developers & QA engineers. Develop & automate your tests to









Android 페이지 2



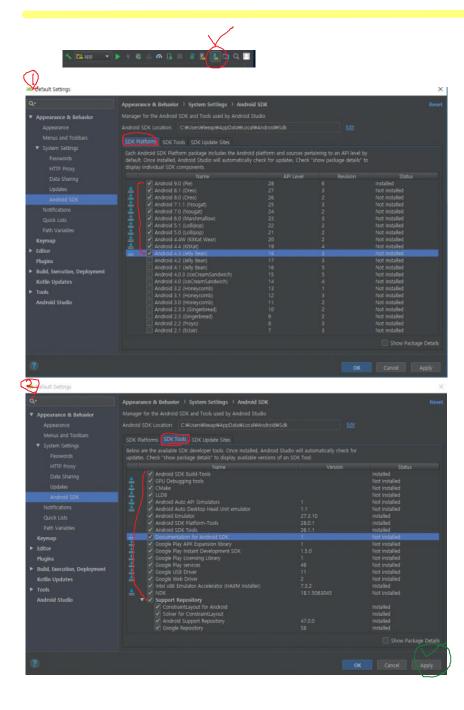
# 2. test 기본

2018년 10월 29일 월요일 오전 11:10









# 3. 기본 앱 구성

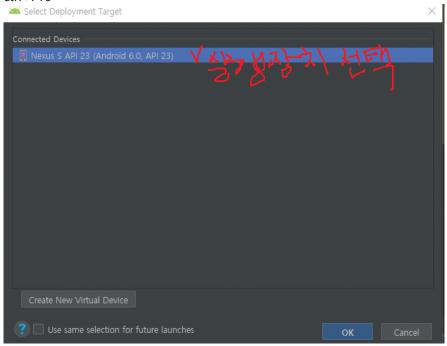
2018년 10월 29일 월요일 오후 1:00



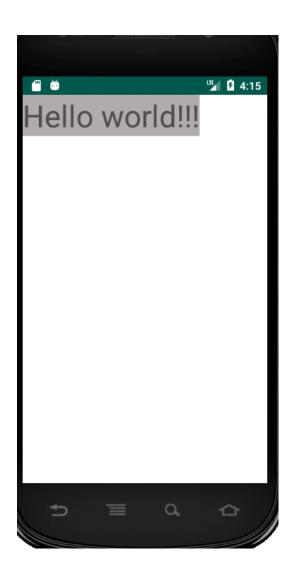
Android 페이지 6

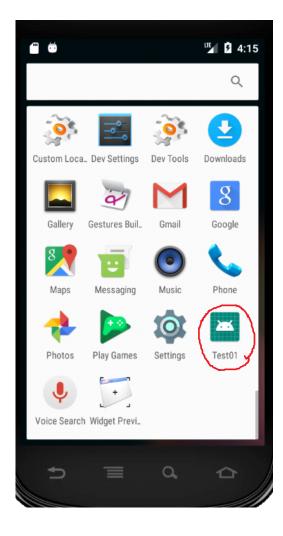


# ctrl+F10





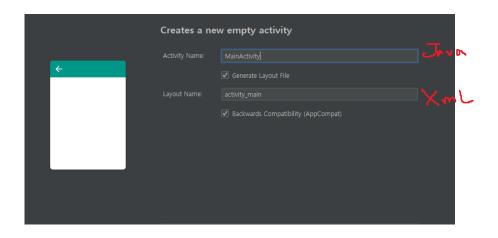




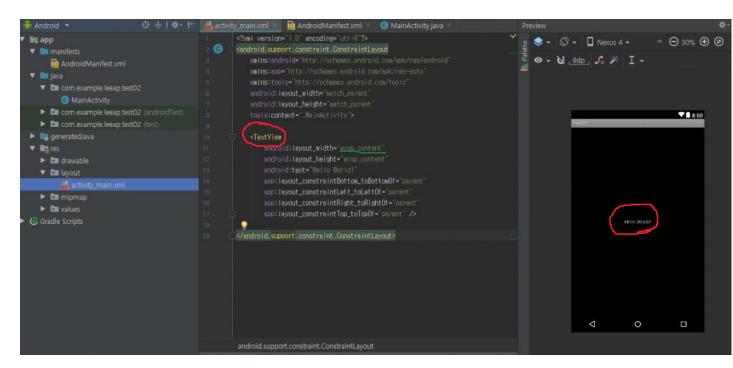
# 4. Test02 (Toast)

2018년 10월 30일 화요일 오전 9:11

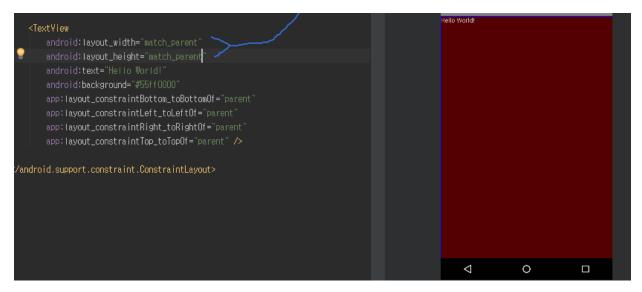
### ConstraintLayout : 4가지 방향성으로 배치를 하는 레이아웃

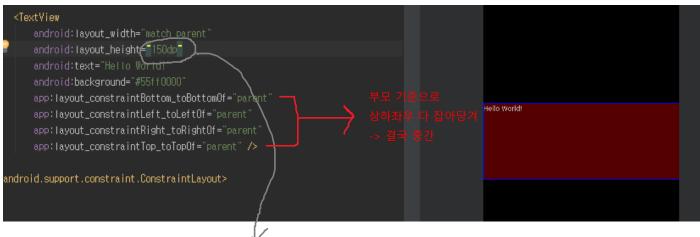


레이아웃 : 일반 뷰 그룹 일반 뷰 : 버튼, 입력, ... 기능



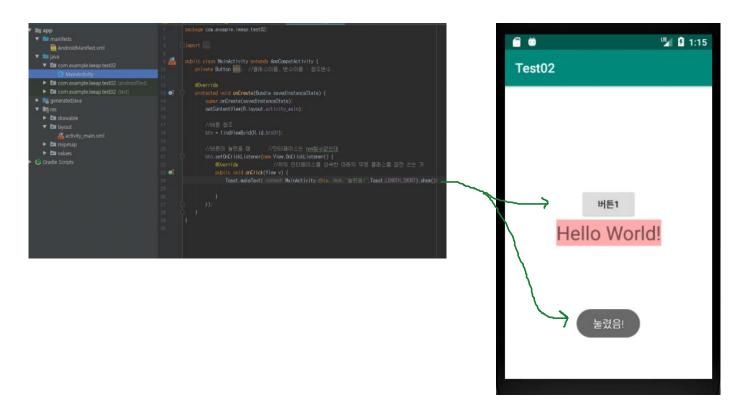


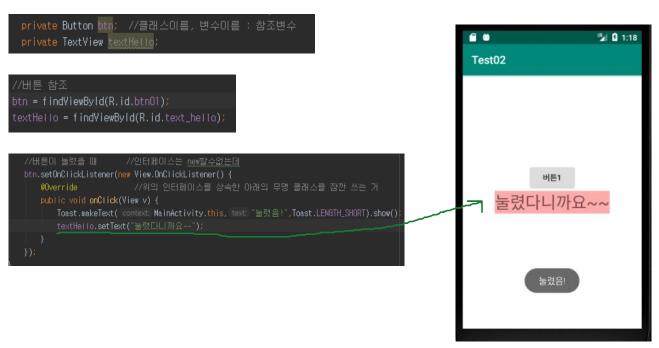




Device에 따라 크기가 다르니까, 어떤 크기던 뭐 100칸씩 나눠서 150만큼채워라~ 이런







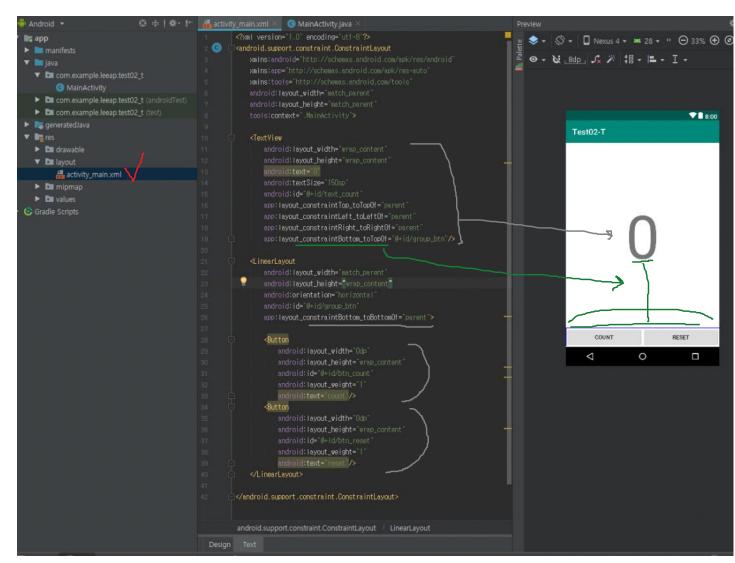
# 예제 1 (카운트업)

2018년 10월 30일 화요일 오전 10:40

### 내 코드



선생님 코드



```
🟭 activity_main.xml × 🔪 🕒 MainActivity.java
        package com.example.leeap.testU2_t
  4
        public class MainActivity extends AppCompatActivity {
            private Button btnCount, btnReset; 🗸
            @Override
 0
            protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.Tayout.activity_main);
                btnCount = findViewById(R.id.btn_count);
                btnReset = findViewByld(R.id.btn_reset);
                textCount = findViewByld(R.id.text_count);
                btnCount.setOnClickListener(new View.OnClickListener() {
6 0
                        textCount.setText(count+"");
                btnReset.setOnClickListener(new View.OnClickListener() {
                    00verride
```

```
btnReset.setOnClickListener(new View.OnClickListener() {

Override

public void onClick(View v) {

count=0;

textCount.setText(count+"");

}

});

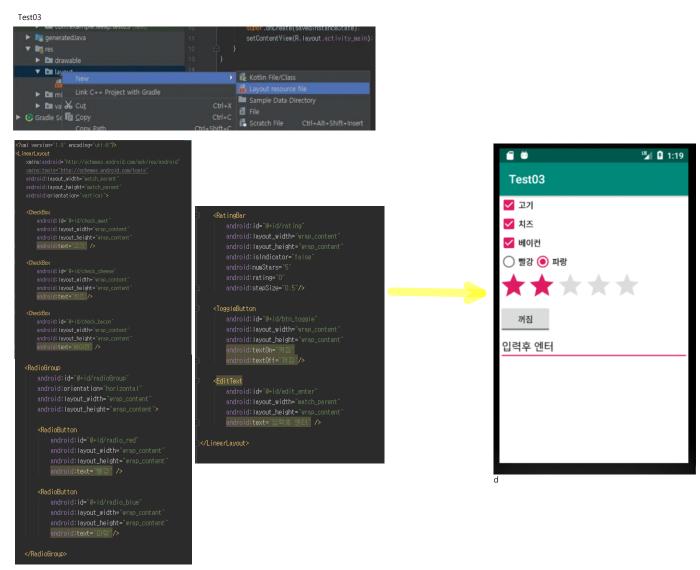
33

40

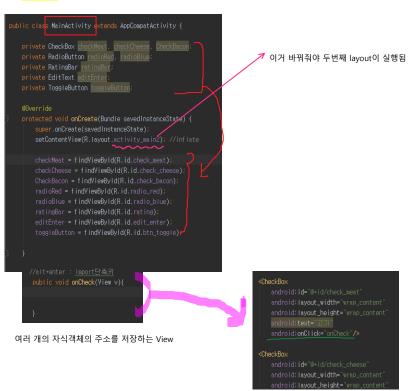
}
});
```

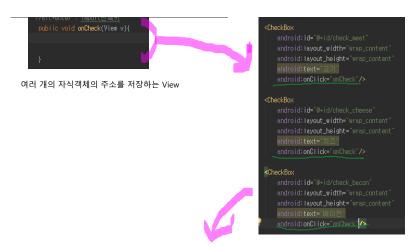
### 5. Test03 -이벤트처리

2018년 10월 31일 수요일 오전 9:21



#### **checkBox**





```
//alt+enter : import단축키
public void onCheck(View v){
    CheckBox checked = (CheckBox)v: //자식클래스로 형변환
    String str = ";
    //지금 체크된 놈 GHONE
    switch (checked.getId()){
    case R.id.check_meet:
        str += "고기";
        break;
    case R.id.check_bacon:
        str += "베이권";
        break;
    case R.id.check_cheese:
        str += "케이즈으";
        break;
}

if(checked.isChecked()){
    Toast.makeText( context this, text str+" 체크될", Toast.LENGTH_SHORT).show();
}else{
    Toast.makeText( context this, text str+" 체크될", Toast.LENGTH_SHORT).show();
}
```





#### Radio

### <mark>상위에 코드 추가</mark>

```
public class MainActivity extends AppCompatActivity {

private CheckBox checkMeat, checkCheese, CheckBoxon;
private RadioButton radioRed, radioBlue;
private RatingBar ratingBar;
private EditText editEnter;
private ToggleButton toggleButton;

private RedBlueEvent radioEvent = new RedBlueEvent(); //미벤트 처리기 準期
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2); //inflate
    checkMeat = findViewByld(R.id.check_meat);
    checkCheese = findViewByld(R.id.check_cheese);
    CheckBacon = findViewByld(R.id.check_bacon);
    radioRed = findViewByld(R.id.radio_red);
    radioBlue = findViewByld(R.id.radio_blue);
    catieBace = findViewByld(R.id.radio_blue);
```

```
private EditText aditEnter;
private ToggleButton toggleButton;

private RedBlueEvent radioEvent = new RedBlueEvent(); //O|型巨 対記기 準期

private RedBlueEvent radioEvent = new RedBlueEvent(); //O|型巨 対記기 準期

checkDaccon = findViewByld(R.id.check_baccon);
radioRed = findViewByld(R.id.radio_red);
radioBlue = findViewByld(R.id.radio_blue);
ratingBar = findViewByld(R.id.rating);
editEnter = findViewByld(R.id.check_baccon);
toggleButton = findViewByld(R.id.check_baccon);
radioRed.setOnClickListener(radioEvent);
radioRed.setOnClickListener(radioEvent);
```



### Toast

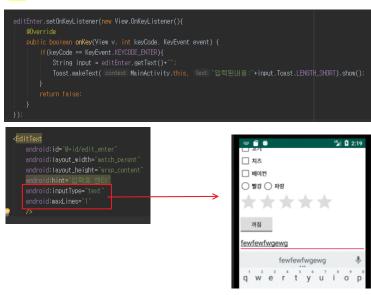
Toast.makeText( context MainActivity.this, text "擅習="+rating, Toast.LENGTH\_SHORT), show();

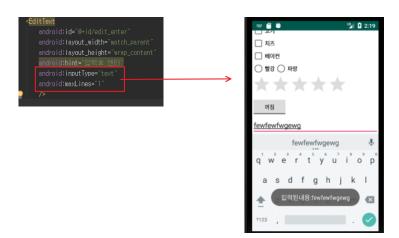
Toast.makeText( context this, text str+" 제크텔", Toast.LENGTH\_SHORT), show();

액티비티에 주소를 줄 때, main액티비티의 클래스일때는 그냥 this해도 알아듣는데 무명클래스의 경우 MainActivity.this!

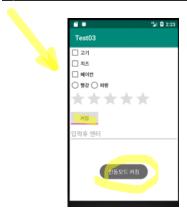
내가 소속된 액티비티를 명확히 모를 때 -> getApplicationContext()

#### Text





### **Toggle Button**

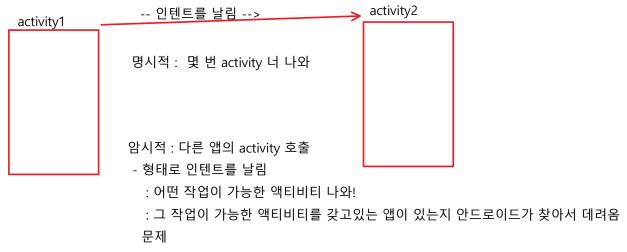




# 5. Test04- activity 호출

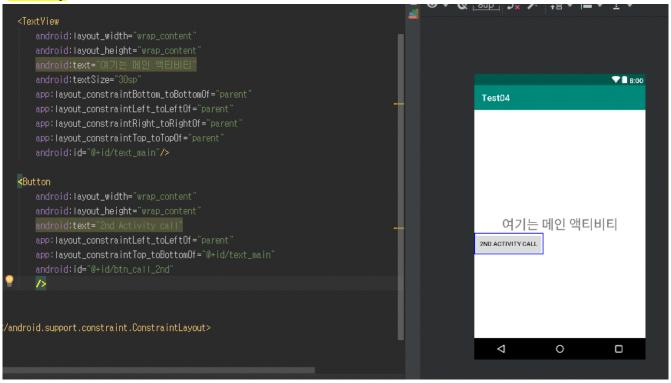
2018년 11월 1일 목요일 오전 9:26

- 1. Layout에 버튼 만들기
- 2. Layout파일만들기
- 3. 자바파일 만들기(연결액티비티, 인텐트보내기액티비티
- 4. Manifest.xml에 액티비티 추가



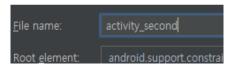
- 없는 경우
- 2개 이상

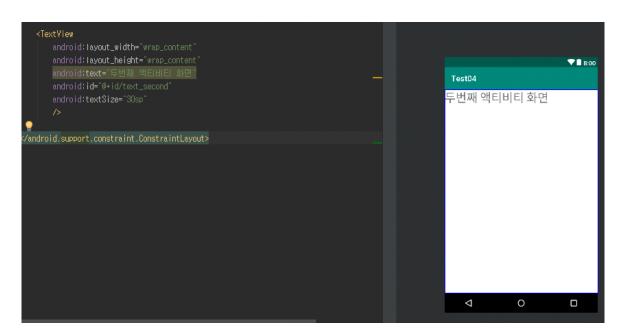
## 1 Activity



# <mark>2nd Activity 생성</mark>

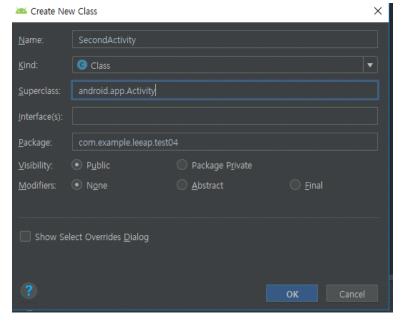
New Resource File





## SecondActivity jaca class 만들기





```
package com.example.leeap.test04;

import android.app.Activity;
import android.os.Bundle;

public class SecondActivity extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        //표지불이기
        setContentView(R.layout.activity_second);
    }
}
```

## AndroidManifest activity 추가

```
🏺 Android 🔻 🤀 🛊 | 🌣 - 🎼 🚜 activity_main.xml >
                                                                               © SecondActivity.java × □ AndroidManifest.xml ×
                                                                                                                                 MainActivity.java
                                                      🚜 activity_second.xml :
                                        <?xml version="1.0" encoding="utf-8"?>
 ▼ manifests
    ▼ 🖿 com.example.leeap.test
         MainActivity
                                               android:icon="@mipmap/ic_launcher
android:label="Test04"
         SecondActivity
    ▶ □ com.example.leeap.test
    ► □ com.example.leeap.test 10
 ▶ 🗽 generatedJava
 ▼ Ires
    ▶ ☐ drawable
    ▼ 🖿 layout
          🚜 activity_main.xml
    ▶ ■ mipmap
    ▶ the values
 Gradle Scripts
```

# <mark>명시적 인텐트</mark>

```
//SecondActivity한테intent날리기작업 →MainActivity.java

package com.example.leeap.test04;

import ...

public class MainActivity extends AppCompatActivity {

private Button btnCallSecond;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

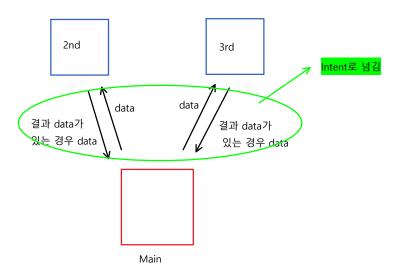
    btnCallSecond = findViewByld(R.id.btn_call_2nd);

    btnCallSecond.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            // SecondActivity 한테 intent 날리기 작업 (뭔시적 인텐트)
            Intent intent = new Intent( packageContext MainActivity.this, SecondActivity.class);
            startActivity(intent);
        }
    }
}
```



# 6. intent에 data보내기

2018년 11월 1일 목요일 오전 10:30



### MainActivity 코드추가

```
btnCallSecond.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        // SecondActivity 한테 intent 날리기 작업 (명시적 인텐트)
        Intent_intent = new Intent(_packageContext_MainActivity.this._SecondActivity.class);
        intent.putExtra(_name: "msgTo2nd", _value: "안녕 두번째 액티비티야---?");
        startActivity(intent);
    }
});

btnCallThird.setOnClickListener(new View.OnClickListener(){
    @Override
    public void onClick(View v) {
        Intent_intent = new Intent(_packageContext_MainActivity.this,_ThirdActivity_class);
        intent.putExtra(_name: "msgTo3nd", _value: "안녕? 세번째 액티비티*^**");
        intent.putExtra(_name: "now", _new Date().toString());
        startActivity(intent);
    }
});
```

### SecondActivity 코드추가

```
public class SecondActivity extends Activity {

private TextView textSecond:

@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
//표지물미기
setContentView(R.layout.activity_second);

textSecond = findViewByld(R.id.text_second);

Intent receivedIntent = getIntent(); //MainActivity/ 보낸 인텐트
String receivedMsg = receivedIntent.getStringExtra( name: "msgTo2nd");

textSecond.setText(textSecond.getText() + "//Bl2으로부터 받은 BMM지 : " + receivedMsg);
}
}
```

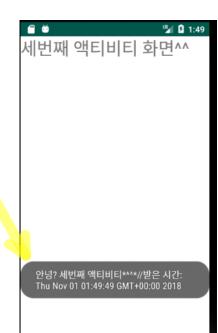
### ThirdActivity 코드추가

```
public class ThirdActivity extends Activity {

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_third);

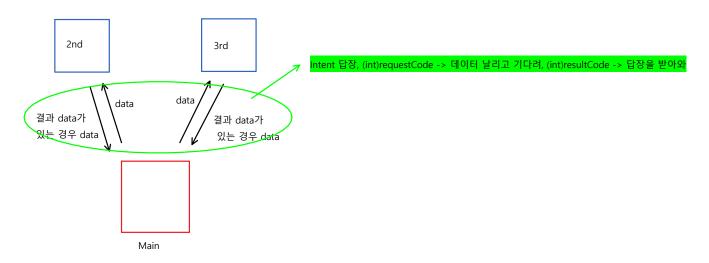
Intent receivedIntent = getIntent(); //MainActivity가 보면 인텐트
    String receivedMsg = receivedIntent.getStringExtra( name: "msgTo3nd");
    String receivedTime = receivedIntent.getStringExtra( name: "now");

    Toast.makeText( context this, text receivedMsg+"//받을 시간: " + receivedTime, Toast.LENGTH_SHORT).show();
}
```



# 7. Test05- 결과data보내기

2018년 11월 1일 목요일 오전 10:52



### Activity\_main.xml

```
<pe
```

MainActivity.java

```
public class MainActivity extends AppCompatActivity {
   private WebView webView;
   private Button btnCall;

@Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        webView = findViewByld(R.id.webview);
        btnCall = findViewByld(R.id.btn_call);

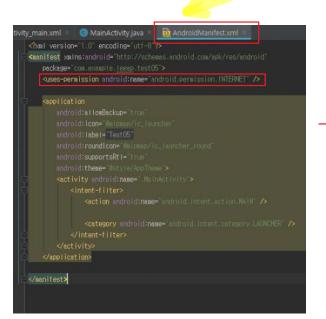
        webView.loadUrl("http://www.naver.com");
}
```

```
Test05

Webpage not available

The webpage at <a href="https://www.naver.com/">https://www.naver.com/</a>
could not be loaded because:
net::ERR_CACHE_MISS
```





앱에서 외부 인터넷 앱이 실행됨

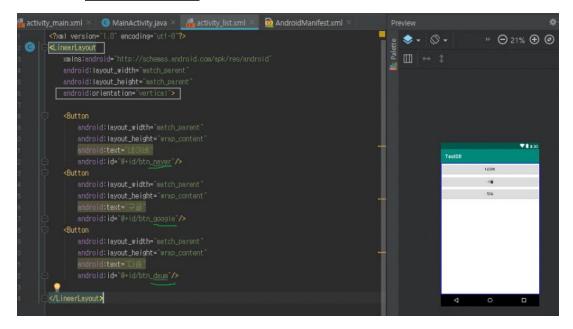












## <mark>자바 클래스 추가</mark>

```
public class ListActivity extends Activity {
    private Button btnNaver, btnBoogle, btnDaum;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_list);

        btnNaver = findViewByld(R.id.btn_naver);
        btnBoogle = findViewByld(R.id.btn_google);
        btnDaum = findViewByld(R.id.btn_daum);
}
}
```

### manifeat 추가





### **MainActivity**

```
MainActivity Intent data : 답장, (int)requestCode -> 데이터 날리고 기다려, (int)resultCode -> 답장을 받아와 public class ListActivity extends Activity {
    private Button btnNaver, btnBoogle, btnDaum;

    @Override
    protected void onCreate(Bundle savedInstanceState) {...}

    @Override
    protected void onActivityResult(int requestCode, int resultCode, Intent data) {
        if(requestCode == 111){
            if(requestCode == 200){ //从용자가 버튼을 선택한 경우
            }else if(requestCode == -1){ //从용자가 버튼 선택 X -> 그냥 back으로 돌아온상태
        }
    }
}
```

### **ListActivity**

```
btnNaver.setOnClickListener(new View.OnClickListener(){
    @Override
    public void onClick(View v){
        Intent intent = new Intent();
        intent.putExtra( name: "url", value: "http://www.naver.com");
        setResult(200, intent);
        finish();

}
});

btnBoogle.setOnClickListener(new View.OnClickListener(){
    @Override
    public void onClick(View v){
        Intent intent = new Intent();
        intent.putExtra( name: "url", value: "http://www.google.com");
        setResult( resultCode: 200, intent);
        finish();

}
});

btnBoum.setOnClickListener(new View.OnClickListener(){
    @Override
    public void onClick(View v){
        Intent intent = new Intent();
        intent.putExtra( name: "url", value: "http://www.daum.net");
        setResult( resultCode: 200, intent);
        finish();

}
});
```

```
//백버튼 눌렀을 때
@Override
public void onBackPressed() {
setResult(-1); //url 버튼 선택 안하고 main으로 돌아가는 resultCode
finish();
}
```

### 8. Test06 - dialog

2018년 11월 2일 금요일 오전 9:20

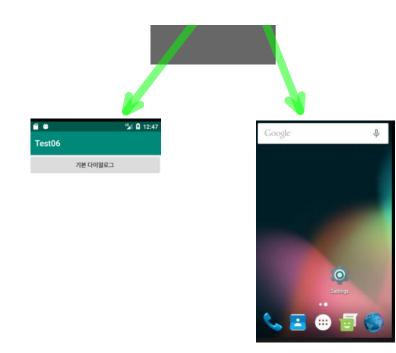
### Activity\_main.xml

```
| StinearLayout | xmins:android=Thttp://schemas.android.com/apk/res/android" | xmins:android=Thttp://schemas.android.com/apk/res-auto" | xmins:tools=Thttp://schemas.android.com/apk/res-auto" | xmins:tools=Thttp://schemas.android.com/apk/res-auto" | xmins:tools=Thttp://schemas.android.com/tools" | android:layout_width="match_parent" | android:layout_height="match_parent" | android:layout_width="match_parent" | android:layout_height="wrap_content" | android:layout_height="wrap_content" | android:layout_height="wrap_content" | android:layout_width="match_parent" | android:layout_height="wrap_content" | android:
```

### MainActivity.java

```
ic class MainActivity extends AppCompatActivity {
private Button btnBasic, btnDate, btnTime, btncustom;
(#Derride protected void onCreate(Bundle savedinstanceState) { 
    super_orCreate(savedinstanceState); 
    setContentViev(R, layout, activity_main);
        tnBasic = findYievByld(R.id.btn_basic);
tnDate = findYievByld(R.id.btn_date);
tnTime = findYievByld(R.id.btn_time);
tncustom = findYievByld(R.id.btn_custom).
                                                                                                                   → 이벤트 처리 메소드를 새로 만듦
Basic daialog 메소드
        public void showDialogBasic(){
AlertDialog.Builder builder = new AlertDialog.Builder( context. this);
              AlertDialog.Builder builder = new AlertDialog.Builder( context this);
                              .setMessage("진짜 중료 할거마?~~~")
.setPositiveButton( text "확인", new DialogInterface.OnClickListener() {
                                  90verride
public void onClick(DialogInterface dialog, int which) {
//확인 버튼 누르면 → 앱 종료
MainActivity.this.finish();
```





### MainActivity.java 날짜선택 daialog 메소드

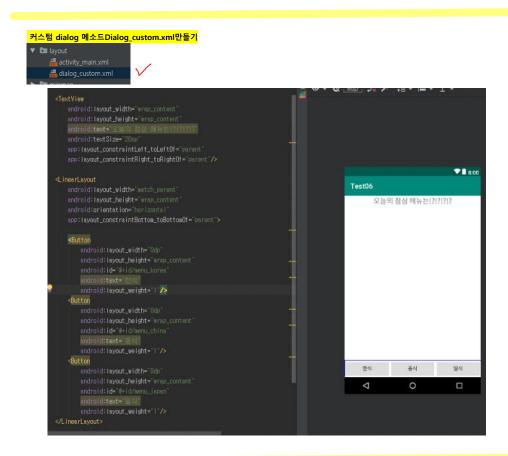




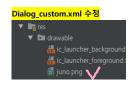
MainActivity.java 시간선택 daialog 메소드







MainActivity.java 커스텀 daialog 메소드



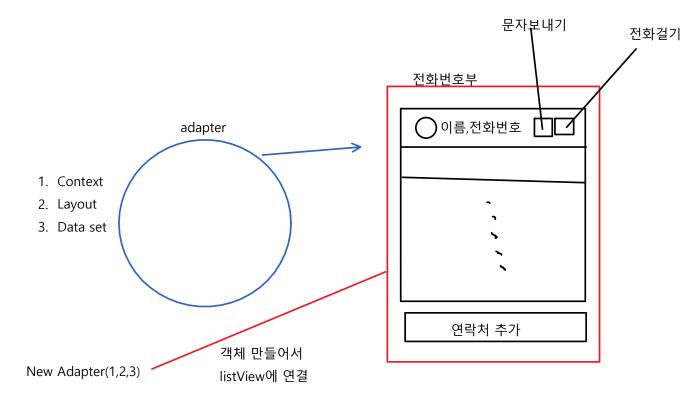






# 9. Test07-전화번호부

2018년 11월 5일 월요일 오전 9:43



## 순서 -

- 1. MainActivity 화면 레이아웃, xml
- 2. 리스트 뷰의 아이템 레이아웃 xml
- 3. ContactsAdapter 클래스 작성(context, layouy, dataSet)
- 4. MainActivity가 가지고 있는 ListView한테 어댑터 객체 등록

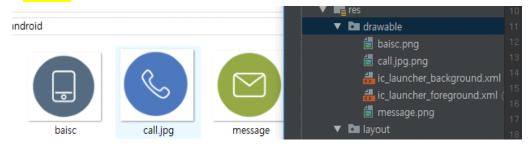
# 전화번호부 리스트

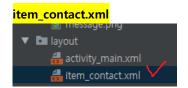
2018년 11월 5일 월요일 오전 10:05

### activity\_main.xml



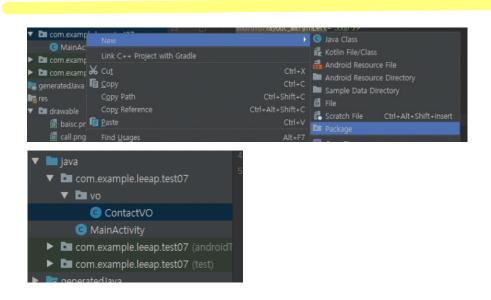
## <mark>사진추가</mark>



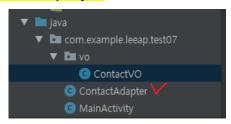


```
<lmageView
    android: layout_width="60dp"
    android: Layout_height="60dp
    android:Tayout_marginLeft="10dp"
    app:layout_constraintLeft_toLeftOf="parent"/>
<TextView
    android: layout_width="wrap_content"
    android:layout_height="wrap_content
    app:Tayout_constraintLeft_toRightOf="@id/contact_img"
    android:Tayout_marginLeft="30dp"/>
    android: layout_width="wrap_content"
    android: layout_height="wrap_content
    android:id="@+id/contact_phone"
    app:Tayout_constraintLeft_toRightOf="@id/contact_img"
    app://ayout_constraintTop_toBottomOf="@+id/contact_name"
    android:textSize="20sp"
    android:Tayout_marginLeft="30dp"/>
<Button
    android: layout_width="50dp"
    android:Tayout_height="50dp"
    android:background="@drawable/call"
    app:Tayout_constraintRight_toRightOf="parent"
<Button
    android: layout_width="50dp"
    android: layout_height="50dp
    android:background="@drawable/message"
```

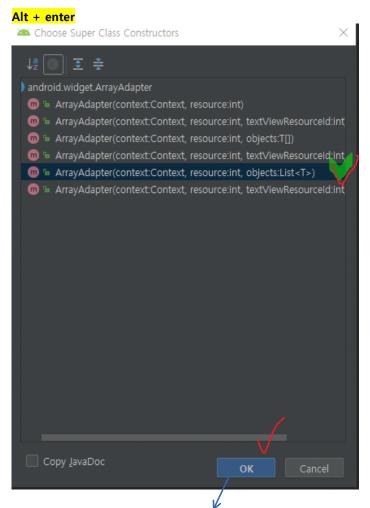




### contactAdapter.java



public class ContactAdapter extends ArrayAdapter<ContactVO>



public class ContactAdapter extends ArrayAdapter<ContactVO> {
 public ContactAdapter(Context context, int resource, List<ContactVO> objects) {
 super(context, resource, objects);
 }
}

```
public class ContactAdapter extends ArrayAdapter<ContactV0> {
    private Context context;
    private int itemLayout;
    private List<ContactV0> contactList;

}

public ContactAdapter(Context context, int resource, List<ContactV0> objects) {
    super(context, resource, objects);
    this.context = context;
    this.itemLayout = resource;
    this.contactList = objects;
}

}
```

```
public class MainActivity extends AppCompatActivity {

private ListView listView;
private Button btnAdd;
private ContactAdapter adapter;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    listView = findViewById(R.id.listview);
    btnAdd = findViewById(R.id.btn_add);

    //객체생설
    adapter = new ContactAdapter( context this,R.layout.item_contact, new ArrayList<ContactVD>());

    //장착
    listView.setAdapter(adapter);
}

}
```

### ContactAdapter.java

```
@Override

public View getView(int position, View convertView, ViewGroup parent){
    return super.getView(position,convertView,parent);
}
```

### ContactAdapter.java

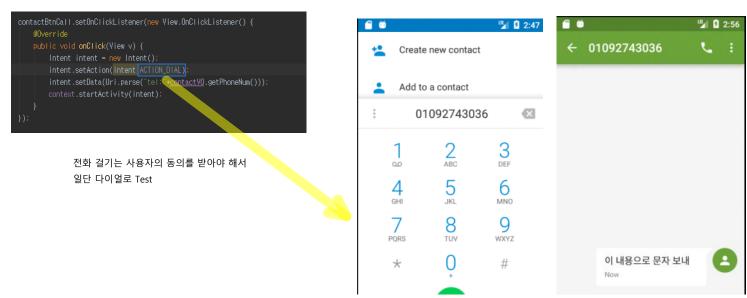




# Intent - 전화, 문자 기능

2018년 11월 5일 월요일 오전 11:33





\* 이 내용으로 문자 보내 Now 이 내용으로 문자 보내 이 내용으로 문자 보내 >

# DB연결

2018년 11월 6일 화요일 오전 9:14

### ContactDBHelper.java

```
iava 🖿
  ▼ 🖿 com.example.leeap.test07
    ▶ Image vo
      ContactAdapter
                                          this
      ContactDBHelper
                                                      버전 올리는 작업등
      MainActivity
                                                        그냥 이름 지어주면 됨
 public class ContactDBHelper extends SQLiteOpenHelper/
 super(context, name, factory, version);
   public void onCreate(SQLiteDatabase db) {
   public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
 public class ContactDBHelper extends SQLiteOpenHelper {
    private static final String DB_NAME = "my_contact.db";
    private static final int DB_VERSION = 1;
    private SQLiteDatabase db;
       db = getWritableDatabase(); //데이터 베이스 연결 생성
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
Table 생성 sql
                                                        Table 삭제후 다시 생성 sql
```

```
Table 생성 sql

@Override

public void onCreate(SQLiteDatabase db) {

// my_contact.dux()을() 처음 생성될때 1번 실행되는 메소드

String sql = "CREATE TABLE CONTACT_TAB(" +

"CONTACT_NUM INTEGER PRIMARY KEY AUTOINCREMENT," +

"CONTACT_NUM INTEGER PRIMARY KEY AUTOINCREMENT," +

"CONTACT_PHONE TEXT," +

"CONTACT_P
```

### CRUD 작업

### **INSERT**

### **SELECTALL**

### ContactDBHelper.java 수정

```
public class ContactDBHelper extends SQLiteOpenHelper {
    private static final String DB_NAME = "my_contact.db";
    private static final int DB_VERSION = 1;

    private SQLiteOatabase db;

public ContactDBHelper( Context context) {
        super(context, DB_NAME, factory null, DB_VERSION);
        //db = getReadableDatabase(); // 사용법, 동작이 둘다 똑같음
        db = getWritableOatabase(); //데이터 베이스 연결 생성
}
```

### MainActivity.java수정

```
### ContactDBHelper dbHelper = new ContactDBHelper( context this);

contactList = dbHelper.selectAII();

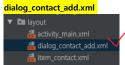
//객체생성
adapter = new ContactAdapter( context this,R.layout.item_contact, contactList);

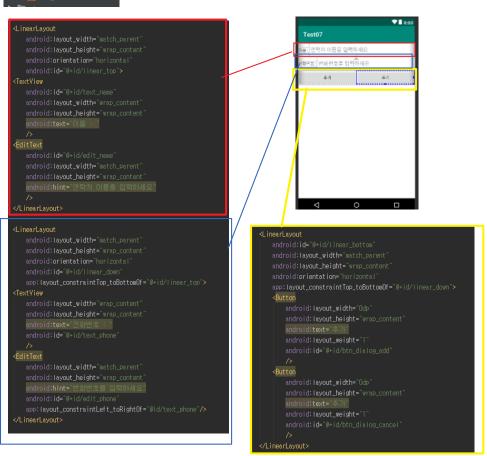
//장착
listView.setAdapter(adapter);
}

}
```

### 연락처 추가

2018년 11월 6일 화요일 오전 10:22





### MainActivity.java -> 전화번호 추가 layout 나타내기

```
Private ContactD6Helper dbHelper = new ContactD6Helper( context this)

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    listView = findViewByld(R.id.listview);
    btnAdd = findViewByld(R.id.btn_add);

// contactList = new ArrayList<ContactVO>();

//

// for(int i = 0; i<20; i++){
        contactList.add(new ContactVO("정은"+i, "01092743036"));
    }

contactList = dbHelper.selectAll();
    //꼭체생성
    adapter = new ContactAdapter( context this.R.layout.item_contact, contactList);
    //공학
    listView.setAdapter(adapter);

btnAdd.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        showContactAddDialog();
    }
} // end onCreate
```

```
public void showContactAddDialoa(){
    final Dialog dialog = new Dialog( context this);
    dialog.setContentView(R.layout.dialog_contact_add);

    final EditText editName = dialog.findViewByld(R.id.edit_name);
    final EditText editName = dialog.findViewByld(R.id.edit_name);
    final EditText editName = dialog.findViewByld(R.id.edit_name);
    Button btnDialogAdd = dialog.findViewByld(R.id.btn_dialog_add);
    Button btnDialogAdd = dialog.findViewByld(R.id.btn_dialog_add);
    Button btnDialogCancel = dialog.findViewByld(R.id.btn_dialog_add);
    btnDialogAdd.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            //CDIGEZ_DMIA 추가 버트을 클릭한 경우 DBM insertAl对Opix
            ContactVO contactVO = new ContactVO();
            contactVO.setName(editName.getText()+"");
            contactVO.setPhoneNum(editPhone.getText()+"");
            dHelper.insert(contactVO); // dbMl 추가하고 CHOI얼로그 달기
            dialog.cancel();
        }
    });

    btnDialogCancel.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            dialog.cancel(); // 취소 버튼 누르면 그냥 CHOI얼로그 끄기
        }
    });

    dialog.show();
```

```
Private ArrayList*ContactVD> ContactList;
private ContactDBHelper dbHelper;

#Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(SavedInstanceState);
    setContentView(R.layout.activity_main);
    listView = findViewByld(R.id.listview);
    btnAdd = findViewByld(R.id.btn_add);

/ contactList = new ArrayList*ContactVD>();

/ for(int i = 0; i<20; i++){
        contactList.add(new ContactVO("쩔물"+i, "01092743036"));

/ dbHelper = new ContactOBHelper( context this);
    contactList = dbHelper.selectAll();

//정책
adapter = new ContactAdapter( context this,R.layout.item_contact, contactList);
//장학
listView.setAdapter(adapter);

btnAdd.setOnClickListener(new View.OnClickListener() {
```





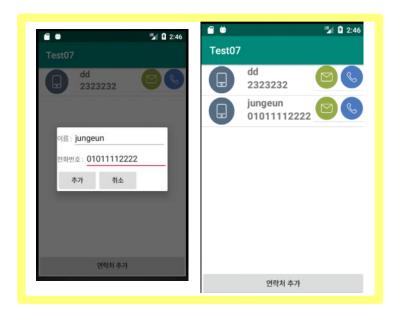
```
에러2 - MainActivity.java

**Override**

public void onClick(View v) {
    //LOUSEZ-UMLA 추가 버튼을 클릭한 경우 DB에 insert시켜이었
    ContactVO contactVO = new ContactVO();
    contactVO.setName(editName.setText()+");
    contactVO.setPhoneNum(editPhone.setText()+");

dbHelper.insert(contactVO): // db에 추가하고 다이얼로그 닫기

    // 방금 db에 변경이 일어났으니, listview폭도 갱신되게 해줘야 바로 반영된것이 확인됩
    contactList.clear();
    ArrayList<ContactVO + tmpList = dbHelper.selectAll();
    contactList.addAll(tmpList);
    adapter.notifyOataSetChanged(); //listview 담당 어댑터에게 데이터 변경 알리기!!!!
    dialog.cancel();
}
});
```



# 10. Test08 - 스레드

2018년 11월 8일 목요일 오전 9:13

```
| Image: Instantial and the state of the st
```

```
MainActivity.java

ivity_main.xml × ② MainActivity.java ×

package com.example.leeap.test08;

import ...

public class MainActivity extends AppCompatActivity {
    private TextView tvCount;

    private int count = 100;

    @Override

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        tvCount = findViewByld(R.id.tv_count);

        new CountThread().start();

}

//Threadellee = public void run() {
        for(count=100; count>=0; count---) {
            tvCount.setText(count + T);
            try {
                Thread.sleep( millis: 1000);
            } catch (Exception e) {
                 e.printStackTrace();
            }
        }
    }
}
```

Error!
스레드가 직접적으로 view를 건들이면 안돼
메인 스레드 -> 화면 그리는 작업 전담해야 함

CountThread.java 별도 클래스로 작성

com.example.leeap.test08
GountThread
MainActivity

```
package com.example.leeap.test08;

pimport android.os.Handler;
pimport android.os.Message;
```

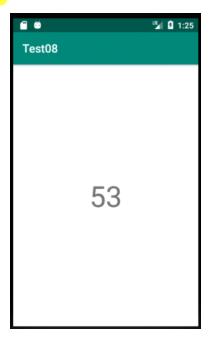
```
public class MainActivity extends AppCompatActivity {
    private TextView tvCount;
    //비서역할 무명클래스
    private Handler myHandler = new Handler(){
        @Override
        public void handleMessage(Message msg) {
            // 다른 스레드에서 메세지 객체가 왔을 때 호출되는 메소드
            int receiveCount = msg.what |
                  tvCount.setText(receiveCount+"");
        }
}

private int count = 100;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity_main);
            tvCount = findViewByld(R.id.tv_count);
            new CountThread(myHandler).start();
}
```

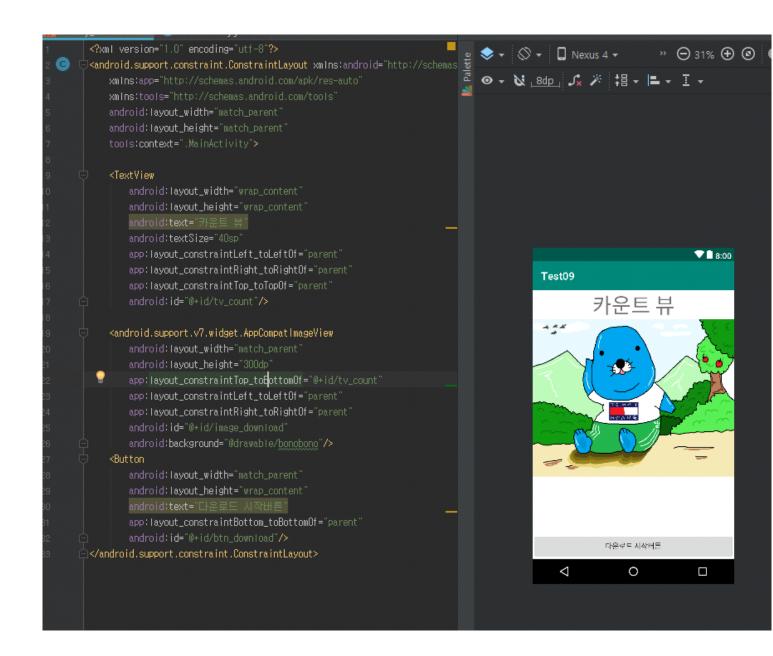


#### 1초마다 count down



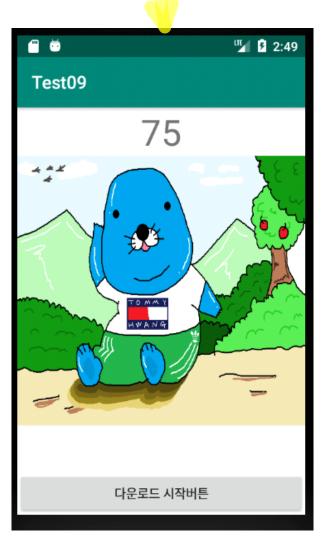


```
public class MainActivity extends AppCompatActivity {
    private TextView tvCount;
       super.onCreate(savedInstanceState);
       setContentView(R.Tayout.activity_main);
        tvCount = findViewById(R.id.tv_count);
    class CountTask extends AsyncTask<Void, Void, Void> {
        protected Void doInBackground(Void... voids) {
               publishProgress();
               } catch (InterruptedException e) {
         protected void onProgressUpdate(Void... values) {
             tvCount.setText(count + "");
         protected void onPostExecute(Void aVoid) {
             tvCount.setText("Complete!");
```



```
class ImageTask extends AsyncTask<Void,Void,Bitmap>{
   protected Bitmap doInBackground(Void... voids) {
      Bitmap result = null;
      InputStream is = null;
         URL url = new URL(imgUrl);
         HttpURLConnection con = (HttpURLConnection) url.openConnection();
      } catch (MalformedURLException e) {
         e.printStackTrace();
      } catch (IOException e) {
             is.close();
   protected void onPostExecute(Bitmap bitmap) {
      imageDown.setImageBitmap(bitmap);
      Toast.makeText( context MainActivity.this, text "다운로드 완료", Toast.LENGTH_SHORT).show();
```

## AndroidManifest.xml 인터넷 사용 추가



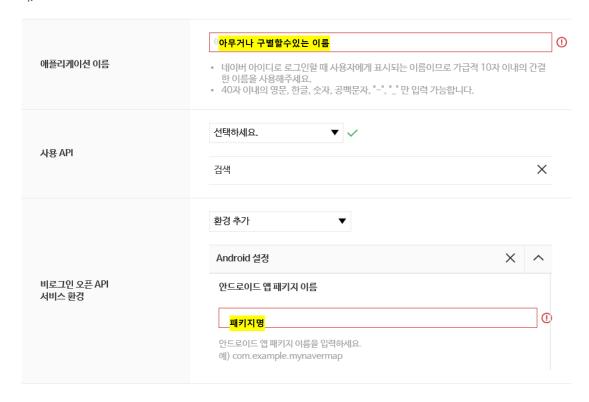


## 12 Test10 api

2018년 11월 9일 금요일 오전 9:21



애플리케이션의 기본 정보를 등록하면, 좌측 <mark>내 애플리케이션 메뉴의 서브 메뉴에 등록하신 애플리케이션 이름으로 서브 메뉴가 만들어집니</mark>다.



- [애플리케이션 이름] 설정을 확인해 주세요.
- [안드로이드 앱 패키지 이름] 설정을 확인해 주세요.

Documents > 서비스 API > 검색 > 블로그



```
- 뉴스
  - 책
                                                      네이버 검색 API에제는 블로그를 비롯 전문자료까지 호출방법이 동일하므로 blog검색만 대표로 예제를 몰렸습니다.
  - 성인 검색어 판별
                                                      // 네이버 검색 API 예제 - blog 검색
  - 백과사전
                                                      import java.io.BufferedReader;
  - 영화
                                                      import java.io.InputStreamReader;
                                                      import java.net.HttpURLConnection;
  - 카페글
                                                      import java.net.URL;
                                                      import java.net.URLEncoder;
  - 지식iN
전체 복사 한 후 클래스 자체를 붙여넣기
     难 검색어 아무거나
                                                                                                    Book, blog, news 등 바꾸면 됨
    String clientld = "3vlkj90F2X|YTsbZyPTu";//애플리케이션 클라이언트 아이디값
String clientSecret = "oTNSHHGer8";//애플리케이션 클라이언트 시크릿값";
        String text = URLEncoder.encode( is "만드로이드" | enc. "UTF-8")
String apiURL = 'https://openapi.naver.com/vl/search/book?query="+ text; // json 결과
//String apiURL = "https://openapi.naver.com/vl/search/blog.xml?query="+ text; // xml 결과
        con.setRequestProperty("X-Naver-Client-Id", clientId);
con.setRequestProperty("X-Naver-Client-Secret", clientSecret);
         int responseCode = con.getResponseCode();
                                                           🍚 package="com.example.leeap.test10">
      AndroidManifest.xml
                                                            <uses-permission android:name="android.permission.INTERNET"/>
```

#### error: android.os.NetworkOnMainThreadException

ample.leeap.test10 1/lje error: android.os.NetworkOnMainThreadException ample.leeap.test10 1/lje: {"lastBuildDate": "Fri, 09 Nov 2018 09:52:12 +0900","total": 1806,"start": 1,"display": 10,"items": [{"title": "Do it! <b>안도로이드</b> 앱 프로그래밍 (<b>안도로이드</b ample.leeap.test10 1/lje: {"lastBuildDate": "Fri, 09 Nov 2018 09:52:35 +0900","total": 1806,"start": 1,"display": 10,"items": [{"title": "Do it! <b>안도로이드</b

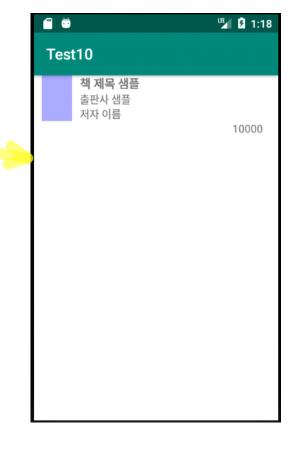
# parsing

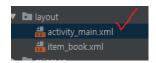
2018년 11월 9일 금요일 오전 10:08

- 1. Xml 레이아웃 파일 작성
  - : item\_book.xml(ImageView 1, TextView 4)
  - : Activity\_main.xml : EditText, Button, ListView
- 2. Java 파일 작성
  - : BookVO클래스 작성
  - : NaverThread 클래스 작성 (메인 쓰레드는 네트워크 하면 안되니까)
  - : MainActivity 검색버튼 이벤트
  - : BookAdapter 클래스 작성(쓰레드가 데이터 받은 이후에 본격적으로 리스트뷰에 작업하는 애)

#### parsing



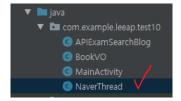




```
### Company of the c
```

# VO class

### NaverThread class



```
public NaverThread(String keyword){
        String text = URLEncoder.encode(keyword, enc: "UTF-8");
        HttpURLConnection con = (HttpURLConnection) url.openConnection();
        con.setRequestMethod("GET");
        BufferedReader br;
           br = new BufferedReader(new InputStreamReader(con.getErrorStream()));
        String inputLine;
        StringBuffer response = new StringBuffer();
    } catch (Exception e) {
```

#### **Gson repository**



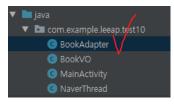
NaverThread.java

@Override public void run() {

implementation g

```
response.append(inputLine);
public class <u>Mayer</u>Thread extends Thread{
    private String keyword!
    private Handler mainHandler;
                                                                                                      BookV0[] array = gson.fromJson(naverResult, BookV0[].class);
                                                                                                 } catch (Exception e) {
      public NaverThread(String keyword, Handler handler){
                                                                                               Message msg = new Message();
   MainActivity.java
           private EditText editKeyword;
private Button btnSearch;
private ListView listviewBook;
           private Handler handler = new Handler(){
               setContentView(R.Tayout.activity_main);
               editKeyword = findViewByld(R.id.edit_keyword);
                    @Override
                    public void onClick(View v) {
```

BookAdapter.java



```
public class BookAdapter extends ArrayAdapter<BookVO> {
   private ArrayList<BookV0> bookList;
   public BookAdapter(Context context, int resource, List<BookYO> objects) {
   @Override
   public View getView(int position, View convertView, ViewGroup parent) {
       BookHolder holder = null;
          holder = new BookHolder();
           holder.bookTitle = convertView.findViewByld(R.id.book_tv_title);
           holder.bookPub = convertView.findViewByld(R.id.book_tv_pub);
           holder.bookPrice = convertView.findViewByld(R.id.book_tv_price);
           holder = (BookHolder) convertView.getTag();
      holder.bookPub.setText(bookV0.getPublisher());
   class BookHolder{
       TextView bookPub;
       TextView bookPrice:
```

```
public class MainActivity extends AppCompatActivity {
    private EditText editKeyword;
    private Button btnSearch;
    private ListView listviewBook;

    private ArrayList<BookVO> bookList = new ArrayList<\( ); //HIPT)는책 데이터 리스트(쓰레드가 받마을 예정)
    private BookAdapter adapter;

private Handler handler = new Handler(){
    @Override
    public void handleMessage(Message msg) {
        //Nave_Thread2\( ) \text{ \text{PookVO>} msg.obj} \);
        bookList.clear();
        bookList.addAll((ArrayList<BookVO>)msg.obj);
        adapter.notifyDataSetChanged(); //H업터한테 데이터 온거 알려주기
    }
};
```

```
## Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

editKeyword = findViewByld(R.id.edit_keyword);

btnSearch = findViewByld(R.id.btn_search);

listviewBook = findViewByld(R.id.listview_book);

btnSearch.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String keyword = editKeyword.getText()+"";

if (keyword=null || Ikeyword.length()==0){

Toast.makeText( context MainActivity.this, text "검색어를 압력하세요", Toast.LENGTH_SHORT).show();

}else {

new NaverThread(keyword, handler).start(); //스레드가 네이버한테 검색어 보내서 결과 받아 즐거야;

}

});

adapter = new BookAdapter( context this, R.layout.item_book, bookList);

listviewBook.setAdapter(adapter);
```

Android 페이지 65