



# 프레임레이아웃

프레임레이아웃을 활용한 화면 구현



# 프로젝트 생성



Application name: **FrameLayoutTest**

Company Domain: admid.example.com

Project location: **C:\Android\StdWork\FrameLayoutTest**

Target Android Devices

- Phone and Tabet
  - Minimun SDK API 15 : Android 4.0.3

Add an activity to Mobile : **Empty Activity**

Customize the Activity

Activity Name: **MainActivity**

Layout Name: **activity\_main**



```
activity_main.xml x
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:tools="http://schemas.android.com/tools"
4     android:layout_width="match_parent"
5     android:layout_height="match_parent"
6     android:orientation="vertical">
7
8     <LinearLayout
9         android:layout_width="match_parent"
10        android:layout_height="wrap_content"
11        android:gravity="center_horizontal"
12        android:background="#00FFFF">
13
14         <Button
15             android:id="@+id/btn01"
16             android:layout_width="wrap_content"
17             android:layout_height="wrap_content"
18             android:text="Naver" />
19
20         <Button
21             android:id="@+id/btn02"
22             android:layout_width="wrap_content"
23             android:layout_height="wrap_content"
24             android:text="Nate" />
25     </LinearLayout>
26
```

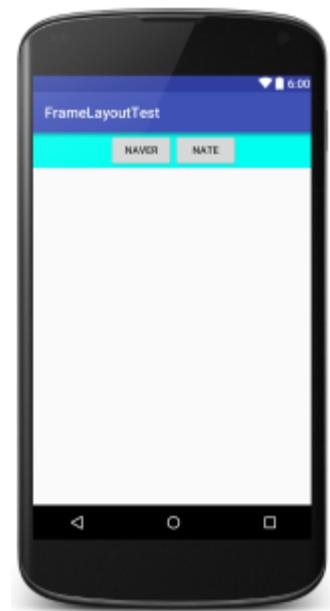
1. 코딩



리니어레이아웃에 버튼을 추가

```
activity_main.xml x
25  </LinearLayout>
26
27  <FrameLayout
28      android:id="@+id/frm"
29      android:layout_width="match_parent"
30      android:layout_height="match_parent">
31
32      <LinearLayout
33          android:id="@+id/line1"
34          android:layout_width="match_parent"
35          android:layout_height="match_parent"
36          android:orientation="vertical"
37          android:visibility="invisible">
38
39          <WebView
40              android:id="@+id/web1"
41              android:layout_width="match_parent"
42              android:layout_height="match_parent" />
43
44      </LinearLayout>
45
46  <LinearLayout
```

2. 코딩



프레임레이아웃에 릴리어레이아웃 2개  
추가하여 웹뷰를 추가

```
activity_main.xml x  
41           android:layout_width="match_parent"  
42           android:layout_height="match_parent" />  
43  
44     </LinearLayout>  
45  
46     <LinearLayout  
47         android:id="@+id/line2"  
48         android:layout_width="match_parent"  
49         android:layout_height="match_parent"  
50         android:orientation="vertical"  
51         android:visibility="invisible">  
52  
53         <WebView  
54             android:id="@+id/web2"  
55             android:layout_width="match_parent"  
56             android:layout_height="match_parent" />  
57  
58     </LinearLayout>  
59   </FrameLayout>  
60 </LinearLayout>
```

3. 코딩



MainActivity.java

```
1 package com.example.admin.frameLayouttest;  
2  
3 import android.os.Bundle;  
4 import android.support.v7.app.AppCompatActivity;  
5 import android.view.View;  
6 import android.webkit.WebView;  
7 import android.widget.Button;  
8 import android.widget.LinearLayout;  
9 import android.widget.Toast;  
10  
11 public class MainActivity extends AppCompatActivity {  
12  
13     Button btn1, btn2;  
14     LinearLayout line1, line2;  
15     WebView web1, web2;  
16  
17     @Override  
18     protected void onCreate(Bundle savedInstanceState) {
```

추후 확인

추후 Import 확인

4. 코딩

Button, LinearLayout, WebView 변수 생성

MainActivity.java x

```
17     @Override  
18     protected void onCreate(Bundle savedInstanceState) {  
19         super.onCreate(savedInstanceState);  
20         setContentView(R.layout.activity_main);
```

5. 코딩

```
21  
22     btn1 = (Button)findViewById(R.id.btn01);  
23     btn2 = (Button)findViewById(R.id.btn02);  
24     line1 = (LinearLayout)findViewById(R.id.line1);  
25     line2 = (LinearLayout)findViewById(R.id.line2);  
26     web1 = (WebView)findViewById(R.id.web1);  
27     web2 = (WebView)findViewById(R.id.web2);
```

Button, LinearLayout,  
WebView를 화면디자인에  
서 생성한 위젯과 연결

```
28  
29     btn1.setOnClickListener(new View.OnClickListener() {  
30         @Override  
31         public void onClick(View v) {  
32             web1.loadUrl("http://m.naver.com");  
33             line1.setVisibility(View.VISIBLE);  
34             line2.setVisibility(View.INVISIBLE);  
35             Toast.makeText(getApplicationContext(),  
36                 "네이버 사이트 연결 중..", Toast.LENGTH_LONG).show();  
37         }  
38     });
```

Button btn1이 클릭되었을  
때, 네이버의 웹페이지를  
연결하고 LinearLayout 보  
이고 숨기기

```
39  
40     btn2.setOnClickListener(new View.OnClickListener() {
```

```
 MainActivity.java x
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
```

```
        });
    });

    btn2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            web2.loadUrl("http://m.nate.com");
            line1.setVisibility(View.INVISIBLE);
            line2.setVisibility(View.VISIBLE);
            Toast.makeText(getApplicationContext(),
                "네이트 사이트 연결 중..", Toast.LENGTH_LONG).show();
        }
    });
}
```

6. 코딩

Button btn2가 클릭되었을 때, 네이트의 웹페이지를 연결하고 LinearLayout 보이고 숨기기

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.admin.framelayouttest">

    <uses-permission android:name="android.permission.INTERNET"></uses-permission>

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="FrameLayoutTest"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

7. 추가

개발한 앱이 인터넷을 활용하려면 "INTERNET" 퍼미션을 추가해야 함.

