



Lycée La Fayette
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Épisode 4 bis : Sources de l'application

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Objectifs : Programmation Android (interface graphique, ressources, interception d'événements, ...)

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AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.alainmenu.android.mydemo1"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk
        android:minSdkVersion="8"
        android:targetSdkVersion="18" />

    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >

        <activity
            android:name="com.alainmenu.android.mydemo1.MyDemo1"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>

        <activity android:name=".WebSearch"
            android:label="@string/app_name">
            <intent-filter>
                <action android:name="android.intent.action.DEFAULT" />
            </intent-filter>
        </activity>

    </application>
</manifest>
```

strings.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">My Demo1</string>
    <string name="action_settings">Settings</string>
    <string name="hello_world">Hello world!</string>
    <string name="comment">Ma première application pour Android développée sous Linux/Mac OSX avec Eclipse et le plugin ADT !</string>
    <string name="copyright">&#169;2011&#8211;2013 by Alain Menu</string>
    <string name="image1">logo LLF</string>
    <string name="btnClear">Clear</string>
    <string name="btnReset">Reset</string>
    <string name="btnNext">Next&#8230;</string>
    <string name="search">Indiquer la recherche à effectuer puis cliquer sur un des boutons pour soumission&#8230;</string>
    <string name="image2">logo Google</string>
    <string name="image3">logo Wikipedia</string>
    <string name="image4">logo Android</string>
</resources>
```

colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="llf_vert">#CCCC00</color>
    <color name="llf_bleu">#0066CC</color>
    <color name="llf_pourpre">#660066</color>
    <color name="translucent_white">#FFFFFF</color>
    <color name="black">#000</color>
    <color name="light_yellow">#FFFCC</color>
</resources>
```



activity_my_demo1.xml

```
<RelativeLayout 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:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MyDemo1"
    android:background="@color/black"

    >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:text="@string/app_name"
        android:textColor="@color/llf_pourpre"
        android:background="@color/translucent_white"
        android:textSize="32sp"
        android:textStyle="bold"
        />

    <ImageView
        android:id="@+id/image1"
        android:layout_width="wrap_content"
        android:layout_height="200dp"
        android:layout_below="@+id/textView1"
        android:contentDescription="@string/image1"
        android:src="@drawable/llf_logo"
        />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/image1"
        android:gravity="center"
        android:text="@string/copyright"
        android:textColor="@color/llf_bleu"
        android:background="@color/light_yellow"
        android:textStyle="bolditalic"
        />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:layout_below="@+id/textView2"
        android:gravity="center"
        android:text="@string/comment"
        android:textColor="@color/llf_vert"
        />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/textView3"
        android:layout_centerHorizontal="true" >

        <Button
            android:id="@+id/btnClear"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textColor="@color/llf_vert"
            android:text="@string/btnClear" />

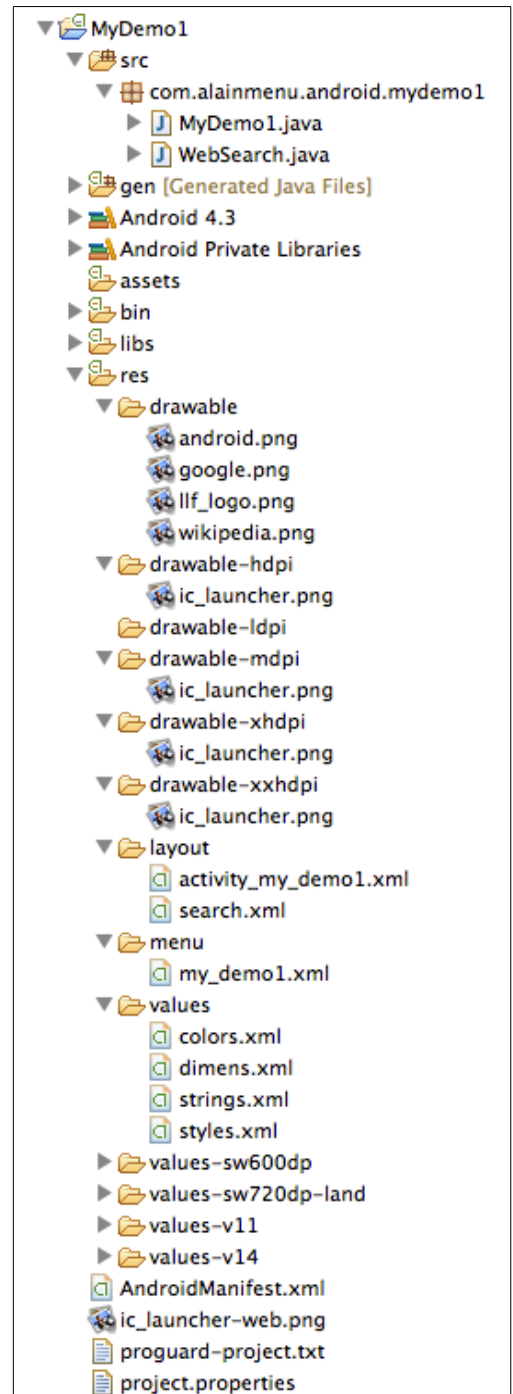
        <Button
            android:id="@+id/btnReset"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textColor="@color/llf_vert"
            android:text="@string/btnReset" />

        <Button
            android:id="@+id/btnNext"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textColor="@color/llf_bleu"
            android:text="@string/btnNext" />

    </LinearLayout>

</RelativeLayout>
```

arborescence du projet :



search.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:orientation="vertical" >

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:layout_marginTop="20dp"
        android:gravity="center_horizontal"
        android:text="@string/search" />

    <EditText
        android:id="@+id/edtSearch"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="10dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:inputType="text" />

    <LinearLayout
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:gravity="center_horizontal"
        android:orientation="horizontal" >

        <ImageButton
            android:id="@+id/btnGoogle"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_gravity="center"
            android:contentDescription="@string/image2"
            android:scaleType="fitCenter"
            android:src="@drawable/google" >

        </ImageButton>

        <ImageButton
            android:id="@+id/btnWikipedia"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_gravity="center"
            android:contentDescription="@string/image3"
            android:scaleType="fitCenter"
            android:src="@drawable/wikipedia" >

        </ImageButton>

        <ImageButton
            android:id="@+id/btnAndroid"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_gravity="center"
            android:contentDescription="@string/image4"
            android:scaleType="fitCenter"
            android:src="@drawable/android" >

        </ImageButton>
    </LinearLayout>

</LinearLayout>
```



MyDemo1.java

```
package com.alainmenu.android.mydemo1;

import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;

public class MyDemo1 extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_my_demo1);

        final TextView comment = (TextView)findViewById(R.id.textView3);
        final Button btnClear = (Button)findViewById(R.id.btnClear);
        final Button btnReset = (Button)findViewById(R.id.btnReset);
        final ImageView img = (ImageView)findViewById(R.id.image1);
        final Button btnNext = (Button)findViewById(R.id.btnNext);

        btnClear.setOnClickListener(
            new View.OnClickListener() {
                public void onClick(View v) {
                    comment.setText("");
                }
            }
        );

        btnReset.setOnClickListener(
            new View.OnClickListener() {
                public void onClick(View v) {
                    comment.setText(R.string.comment);
                }
            }
        );

        img.setOnClickListener(
            new View.OnClickListener() {
                public void onClick(View v) {
                    Intent intent = new Intent(Intent.ACTION_VIEW, Uri.parse("http://www.lyceelafayette.fr"));
                    startActivity(intent);
                }
            }
        );

        btnNext.setOnClickListener(
            new View.OnClickListener() {
                public void onClick(View v) {
                    Intent intent = new Intent(MyDemo1.this, WebSearch.class );
                    startActivity(intent);
                }
            }
        );
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.my_demo1, menu);
        return true;
    }
}
```



WebSearch.java

```
package com.alainmenu.android.mydemo1;

import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.ImageButton;
import android.widget.Toast;

public class WebSearch extends Activity implements View.OnClickListener {

    private EditText          edtSearch ;
    private ImageButton      btnGoogle ;
    private ImageButton      btnWikipedia ;
    private ImageButton      btnAndroid ;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.search);

        edtSearch = (EditText)findViewById(R.id.edtSearch);
        btnGoogle = (ImageButton)findViewById(R.id.btnGoogle);
        btnWikipedia = (ImageButton)findViewById(R.id.btnWikipedia);
        btnAndroid = (ImageButton)findViewById(R.id.btnAndroid);

        btnGoogle.setOnClickListener(this);
        btnWikipedia.setOnClickListener(this);
        btnAndroid.setOnClickListener(this);
    }

    @Override
    public void onClick(View view)
    {
        String req = edtSearch.getText().toString();
        if ( view == btnGoogle ) {
            req = "http://www.google.fr/search?q=" + req;
            Intent intent = new Intent(Intent.ACTION_VIEW, Uri.parse(req));
            startActivity(intent);
        }
        if ( view == btnWikipedia ) {
            req = "http://fr.wikipedia.org/wiki/" + req;
            Intent intent = new Intent(Intent.ACTION_VIEW, Uri.parse(req));
            startActivity(intent);
        }
        if ( view == btnAndroid ) {
            req = "http://developer.android.com/search.html?q=" + req;
            Intent intent = new Intent(Intent.ACTION_VIEW, Uri.parse(req));
            startActivity(intent);
        }
        Toast toast = Toast.makeText(getApplicationContext(), req, Toast.LENGTH_SHORT);
        toast.show();
    }
}
```

