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Demonstration of ImageView, AlertDialog and ListView

ImageView

activity _main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="TAP TO CHANGE THE IMAGE "
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/imageView"
        app:layout_constraintVertical_bias="0.204" />

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.321"
        app:srcCompat="@drawable/in1dex" />
</androidx.constraintlayout.widget.ConstraintLayout>
```
Mainactivity.java

```java
package com.example.image112;

import androidx.appcompat.app.AppCompatActivity;
```
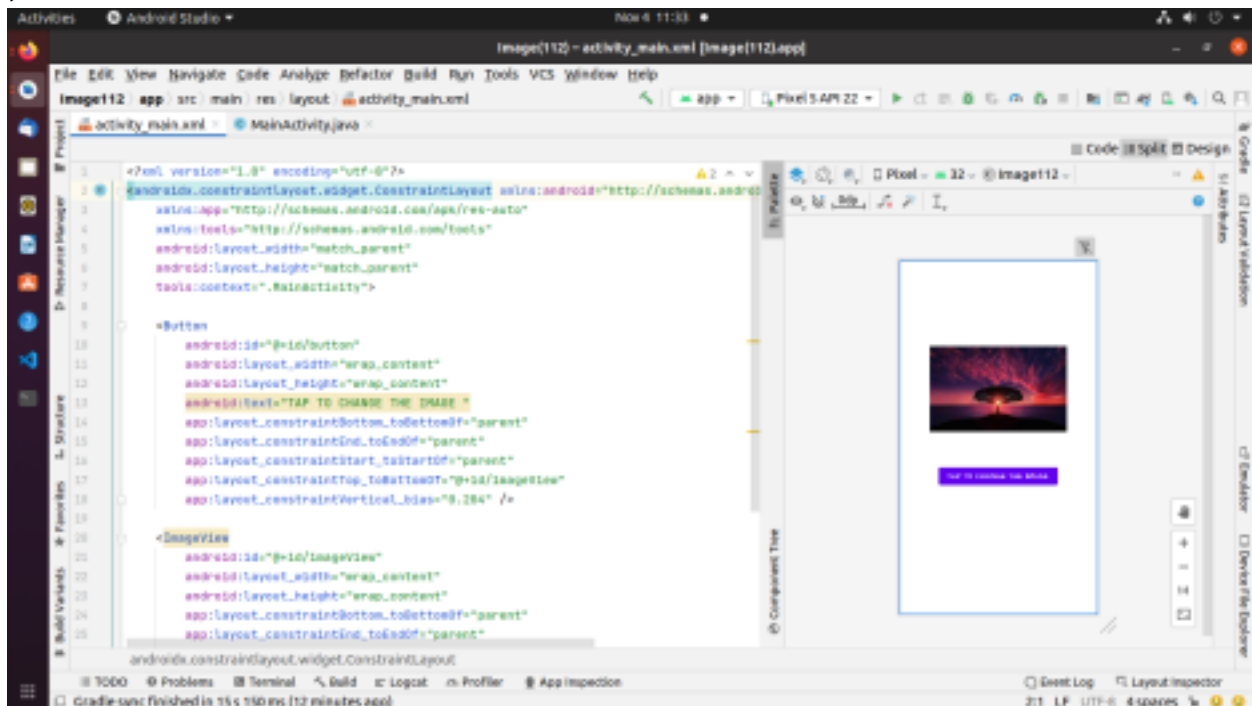
```java
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {

    ImageView iv;
    Button btn;
    boolean flag = true;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        iv = findViewById(R.id.imageView);
        btn = findViewById(R.id.button);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(flag){
                    iv.setImageResource(R.drawable.index);
                    flag = false;
                }
                else{
                    iv.setImageResource(R.drawable.in1dex);
                    flag = true;
                }
            }
        });


    }
}
```
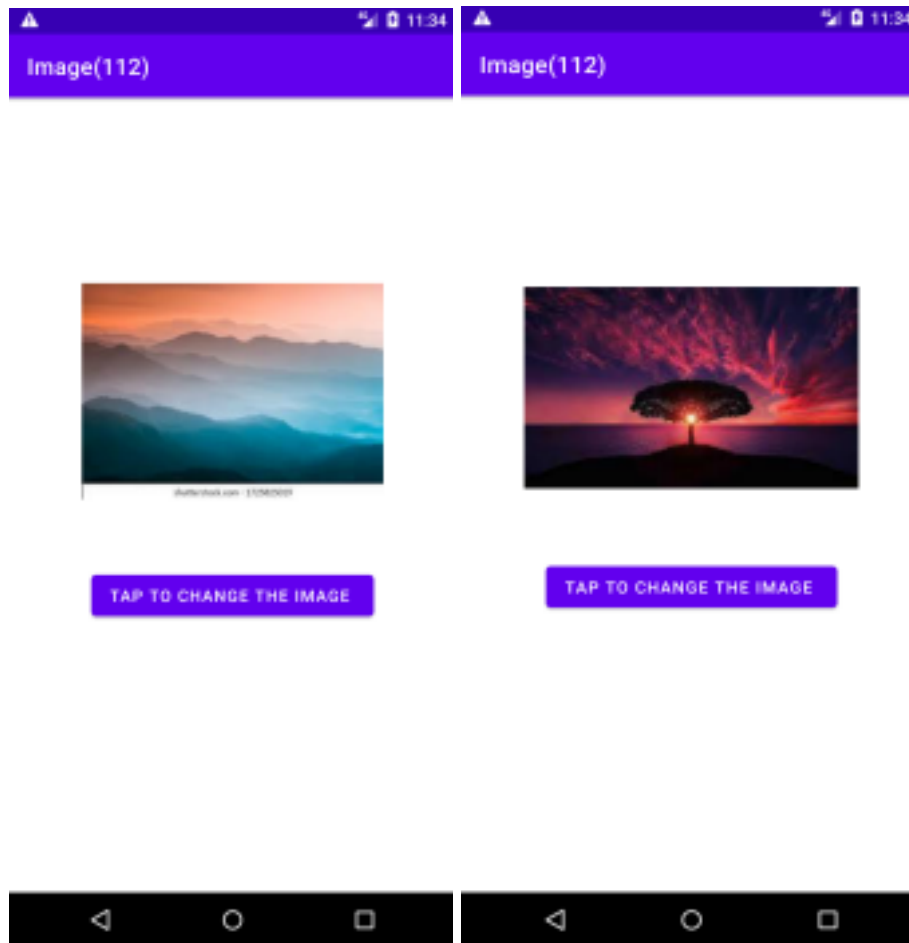
AlertDialog

Actvity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">


    <Button
        android:id="@+id/button"
        android:layout_width="210dp"
        android:layout_height="76dp"
        android:text="Click here to alert"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Mainactivity.java

```java
package com.example.alert112;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    Button alert;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        alert = findViewById(R.id.button);
        alert.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                AlertDialog.Builder builder = new
AlertDialog.Builder(MainActivity.this);

                builder.setIcon(R.drawable.ic_launcher_background);
                builder.setTitle("Alert Title");
                 builder.setMessage("Shall I close this window, Y/N?");
                builder.setPositiveButton("Yes", new
DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialogInterface, int i)
{
                        Toast.makeText(MainActivity.this,"You have presses
yes",Toast.LENGTH_SHORT).show();
                    }
                });
                builder.setNegativeButton("No", new
DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialog, int which) {
                        finish();
                    }
                });
                AlertDialog alertDialog = builder.create();
                alertDialog.show();


        }
```
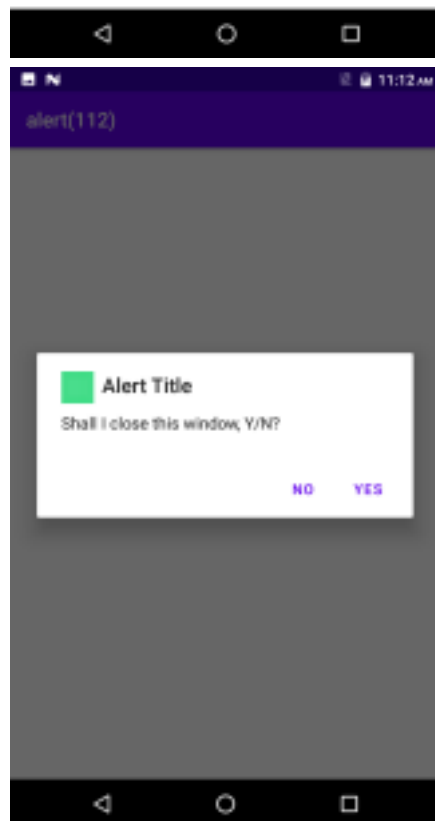
```
            });
    }
}
```

ListView

Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <ListView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/list" />

</LinearLayout>
```

Layout.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<TextView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:text="Content"
    android:textSize="40sp"
```

```
    />
```

String.xml

```xml
<resources>
    <string name="app_name">list(112)</string>
    <string-array name="IPL">
        <item>GT</item>
        <item>RR</item>
        <item>LSG</item>
        <item>RCB</item>
        <item>DC</item>
        <item>PBKS</item>
        <item>KKR</item>
        <item>SRH</item>
        <item>CSK</item>
        <item>MI</item>
    </string-array>
</resources>
```

Mainactivity.java

```java
package com.example.list112;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    ListView myList;
    String countryList[];

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        myList = findViewById(R.id.list);
            countryList = getResources().getStringArray(R.array.IPL);

        ArrayAdapter<String> arrayAdapter = new
ArrayAdapter<String>(this,R.layout.layout,countryList);
        myList.setAdapter(arrayAdapter);

        myList.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view, int
position, long id) {
                Toast.makeText(MainActivity.this, "You Have Clicked",
```

```
Toast.LENGTH_SHORT).show();


            }
        });


    }
}
```