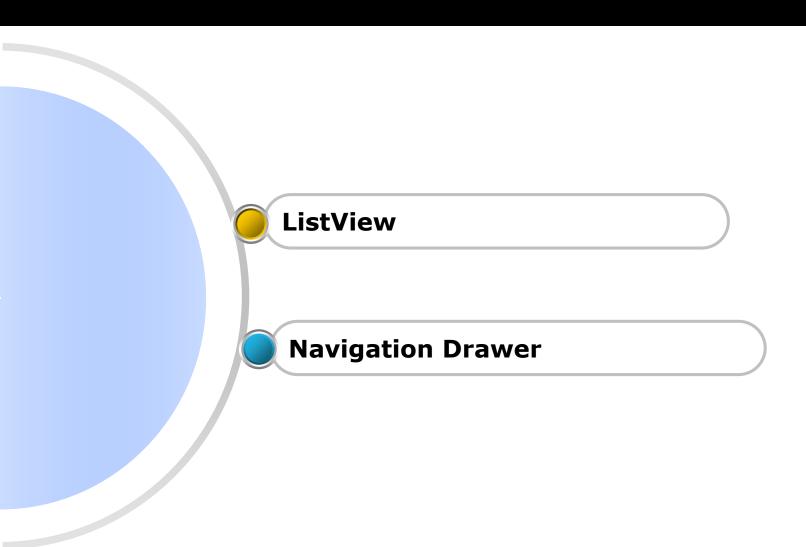






Contenido



tem 2

tem 3

tem 4

tem 5

tem 6

tem 9



- * Es el control mas utilizado de todos.
- Muestra al usuario una lista de opciones seleccionables directamente sobre el propio control
- Permite hacer Scroll si hay opciones que no se

ven

Crear nuevo modulo ExListView





Se programa la actividad Principal

```
public class MainActivity extends Activity {
    final String[] nombres = new String[] {"Superman", "Flash", "Mujer Maravilla", "Acuaman" };
    ListView lstNombres;

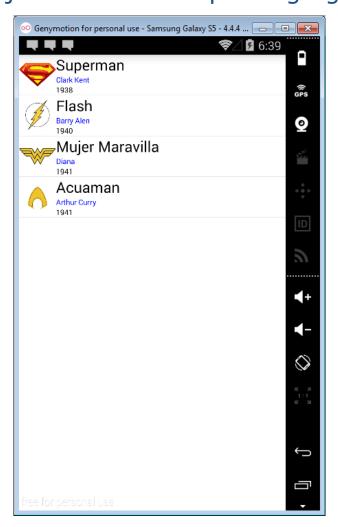
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    ArrayAdapter<String> adaptador = new ArrayAdapter<String>(this, android.R.layout.simple_list_item_1, nombres);
    lstNombres = (ListView) findViewById(R.id.Lst);
    lstNombres.setAdapter(adaptador);
```

Cambia el layout genérico de Android



Si se quiere mejorar el ListView para agregar mas datos



Creamos una clase con lo que queremos mostrar: Imagen, Nombre, Nombre de Pila y año (getters)

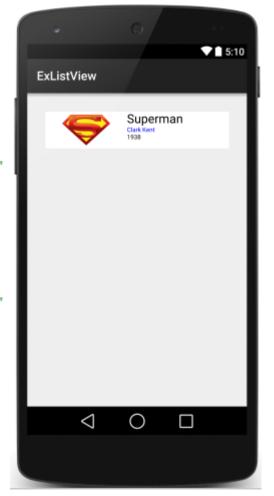
```
package com.example.exlistview;
public class Lista Entrada {
    private int idImagen;
    private String nombre;
    private String nombrePila;
    private String fecha;
   public Lista Entrada(int idImagen, String nombre, String nombrePila) {
        this.idImagen = idImagen;
        this.nombre = nombre:
        this.nombrePila = nombrePila;
    public int getIdImagen() {
        return idImagen;
    public String getNombre() {
        return nombre;
    public String getNombrePila() {
        return nombrePila;
    public String getFecha() {
        return fecha;
```



Busines &

Luego creamos un layout (xml)

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:orientation="horizontal"
    android:layout width="fill parent"
   android:layout height="60dp"
    android:layout margin="30dp"
                                                         <TextView
   android:background="@color/white">
                                                             android:layout width="fill parent"
                                                             android:layout height="wrap content"
    <ImageView
                                                             android:id="@+id/tnomPila"
        android:layout width="50dp"
                                                             android:textSize="10dp"
        android:layout height="50dp"
                                                             android:text="@string/tSuperClar"
        android:id="@+id/imagen"
                                                             android:textColor="@color/blue"/>
        android:src="@drawable/supermanlogo"
        android:layout gravity="center"
                                                         <TextView
        android:layout weight="0.5"
                                                             android:layout width="fill parent"
                                                             android:layout height="wrap content"
   <LinearLayout</p>
                                                             android:id="@+id/tyear"
        android:layout width="0dp"
        android:layout height="wrap content"
                                                             android:textSize="10dp"
                                                             android:layout marginRight="10dp"
        android:orientation="vertical"
                                                             android:text="@string/tSuperyear"
        android:layout weight="1">
                                                             android:textColor="@color/black"/>
                                                         </LinearLayout>
        <TextView
            android:layout width="fill parent" </LinearLayout>
            android:layout height="wrap content"
            android:id="@+id/tnombre"
            android:text="@string/tSuperman"
            android:textSize="20dp"
            android:textColor="@color/black"/>
```





Una vez creado el layout y la clase se debe crear el adaptador para unir las dos cosas

```
class Adapter extends ArrayAdapter<Lista Entrada>{
   public Adapter(Context context, Lista Entrada[] datos) {
                                                                           Constructor
        super(context, R.layout.listitem, datos);
    @Override
    public View getView(int position, View convertView, ViewGroup parent) {
       LayoutInflater inflater = LayoutInflater.from(getContext());
       View item = inflater.inflate(R.layout.listitem, null);
       TextView nombre = (TextView) item.findViewById(R.id.tnombre);
        nombre.setText(datos[position].getNombre());
       TextView nombrePila = (TextView) item.findViewById(R.id.tnomPila);
        nombrePila.setText(datos[position].getNombrePila());
       TextView year = (TextView) item.findViewById(R.id.tyear);
       vear.setText(datos[position].getFecha());
        ImageView imagen = (ImageView) item.findViewById(R.id.imagen);
        imagen.setImageResource(datos[position].getIdImagen());
        return (item);
```

Genera y rellena con los datos Los widgets de la Interfaz

- se llama cada vez que haya que mostrar un elemento de la lista.
- * Primero se "inflar" el layout XML
- * Esto consiste en consultar el XML de nuestro layout y crear e inicializar la estructura de objetos java equivalente.
- Para ello, crearemos un nuevo objetoLayoutInflater y generaremos la estructura de objetos mediante su método inflate (id layout).



El Main Activity cambia

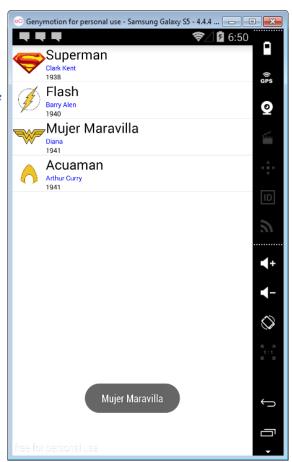
```
public class MainActivity extends Activity {
    private Lista Entrada[] datos =
            new Lista Entrada[] {
                new Lista Entrada (R.drawable. supermanlogo, "Superman", "Clark Kent", "1938"),
                new Lista Entrada (R.drawable.flashlogo, "Flash", "Barry Alen", "1940"),
                new Lista_Entrada(R.drawable.mujermaravillalogo, "Mujer Maravilla", "Diana", "1941"),
                new Lista Entrada (R.drawable.acuamanlogo, "Acuaman", "Arthur Curry", "1941") };
    private ListView 1st;
    @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    Adapter adaptador = new Adapter(this, datos);
    lst = (ListView) findViewById(R.id.Lst);
    lst.setAdapter(adaptador);
```



ListView

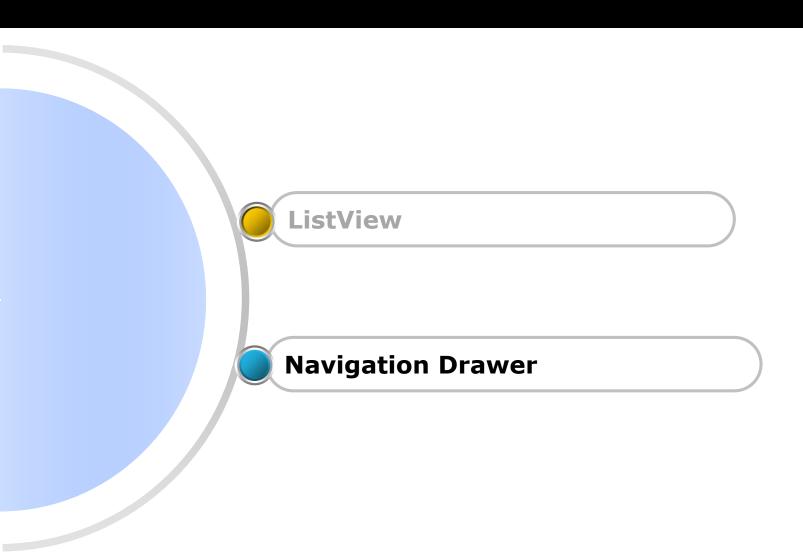
Listener

```
lst.setOnItemClickListener(new AdapterView.OnItemClickListener() {
   @Override
   public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
        String opcionSeleccionada = ((Lista_Entrada)parent.getItemAtPosition(position)).getNombre();
        Toast.makeText(MainActivity.this, opcionSeleccionada, Toast.LENGTH_SHORT).show();
   }
});
```



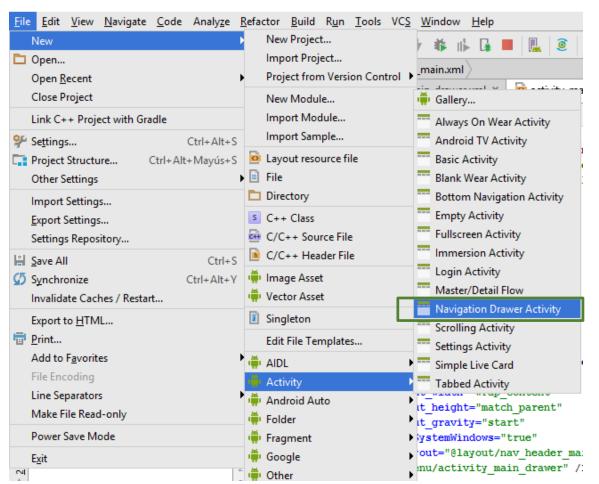


Contenido



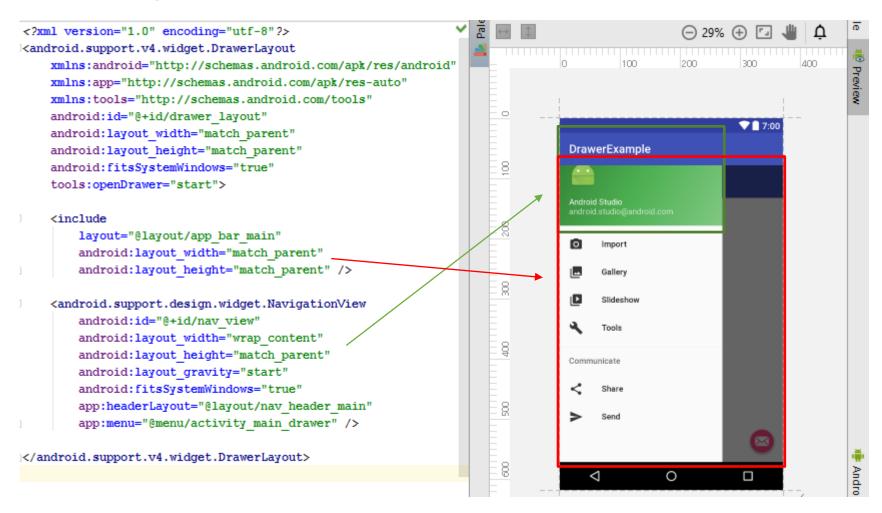


Crear una nueva actividad seleccionando Navigation Drawer Activity





Activity_main.xml





nav_header_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout width="match parent"
    android:layout height="160dp"
    android:background="@drawable/side nav bar"
                                                                                                                          7:00
    android:gravity="bottom"
    android:orientation="vertical"
                                                                                           DrawerExample
    android:paddingBottom="16dp"
    android:paddingLeft="16dp"
    android:paddingRight="16dp"
    android:paddingTop="16dp"
    android:theme="@style/ThemeOverlay.AppCompat.Dark">
                                                                                           Android Studio
    <ImageView
        android:id="@+id/imageView"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:paddingTop="16dp"
        app:srcCompat="@android:drawable/sym def app icon" />
    <TextView
        android:layout width="match parent"
        android:layout height="wrap content"
        android:paddingTop="16dp"
        android:text="Android Studio"
        android:textAppearance="@style/TextAppearance.AppCompat.Body1" />
    <TextView
        android:id="@+id/textView"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="android.studio@android.com" />
<@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"
                                                                 tools:context="com.edwinacubillos.drawerexample.MainActivity">
                                                                 <android.support.design.widget.AppBarLayout</pre>
                                                                     android:layout width="match parent"
<include</pre>
                                                                     android:layout height="wrap content"
    layout="@layout/app bar main"
                                                                     android:theme="@style/AppTheme.AppBarOverlay">
    android:layout width="match parent"
                                                                     <android.support.v7.widget.Toolbar</pre>
    android:layout height="match parent" />
                                                                         android:id="@+id/toolbar"
                                                                         android:layout width="match parent"
                                                                         android:layout height="?attr/actionBarSize"
                                                                         android:background="?attr/colorPrimary"
                                                                         app:popupTheme="@style/AppTheme.PopupOverlay" />
                                                                 </android.support.design.widget.AppBarLayout>
                                                                                                                  ???
                                                                 <include layout="@layout/content main" />
                                                                 <android.support.design.widget.FloatingActionButton</pre>
                                                                     android:id="@+id/fab"
                                                                     android:layout width="wrap content"
                                                                     android:layout height="wrap content"
                                                                     android:layout gravity="bottom|end"
                                                                     android:layout margin="16dp"
                                                                     app:srcCompat="@android:drawable/ic dialog email" />
```

<?xml version="1.0" encoding="utf-8"?>

<android.support.design.widget.CoordinatorLayout</pre>

Android.support.design.widget.CoordinatorLayout>



mailto:linemailto:line<a href="ma

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout</pre>
    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="com.edwinacubillos.drawerexample.MainActivity">
    <android.support.design.widget.AppBarLayout</pre>
        android:layout width="match parent"
        android:layout height="wrap content"
        android: theme="@style/AppTheme.AppBarOverlay">
        <android.support.v7.widget.Toolbar</pre>
            android:id="@+id/toolbar"
            android:layout width="match parent"
            android:layout height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"
            app:popupTheme="@style/AppTheme.PopupOverlay" />
    </android.support.design.widget.AppBarLayout>
    <include layout="@layout/content main" />
    <android.support.design.widget.FloatingActionButton</pre>
        android:id="@+id/fab"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout gravity="bottom|end"
        android:layout margin="16dp"
        app:srcCompat="@android:drawable/ic dialog email" />
```

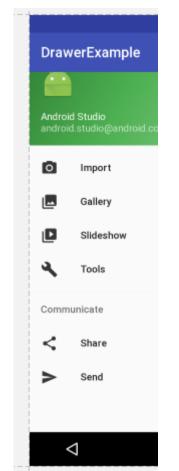


Contenido que se quiere ver en la Aplicación

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout</pre>
    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"
                                                                                                                           7:00
   android:layout height="match parent"
    app:layout behavior="android.support.design.widget.AppBarLayout$ScrollingVie.
    tools:context="com.edwinacubillos.drawerexample.MainActivity"
    tools:showIn="@layout/app bar main">
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Hello World!"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintLeft toLeftOf="parent"
                                                                                                              Hello World!
        app:layout constraintRight toRightOf="parent"
        app:layout constraintTop toTopOf="parent" />

Android.support.constraint.ConstraintLayout>
                                                                                        8
```

content_main.xml layout="@layout/app bar main" nav_header_main.xml 14 android:layout width="match parent" ▼ 🛅 menu android:layout height="match parent" /> activity_main_drawer.xml 16 main.xml 17 <android.support.design.widget.NavigationView</p> android:id="@+id/nav view" i mipmap android:layout width="wrap content" 19 values android:layout height="match parent" Gradle Scripts android:layout gravity="start" 22 android:fitsSystemWindows="true" app:headerLayout="@layout/nav header main" 24 app:menu="@menu/activity main drawer" /> Android.support.v4.widget.DrawerLayout>



```
<?xml version="1.0" encoding="utf-8"?>
     <menu xmlns:android="http://schemas.android.com/apk/res/android">
         <group android:checkableBehavior="single">
                 android:id="@+id/nav camera"
o
                 android:icon="@drawable/ic menu camera"
                 android:title="Import" />
                                                                                         DrawerExample
                 android:id="@+id/nav gallery"
                                                                                                                          0
                                                                                                             Import
                 android:icon="@drawable/ic menu gallery"
                 android:title="Gallery" />
                                                                                                             Gallery
                                                                                                                           O
             <item
                 android:id="@+id/nav slideshow"
                                                                                                            Slideshow
android:icon="@drawable/ic menu slideshow"
                 android:title="Slideshow" />
                                                                                                                           O
                                                                                                            Tools
             <item
                 android:id="@+id/nav manage"
                                                                                                             Communicate
                 android:icon="@drawable/ic menu manage"
                 android:title="Tools" />
         </group>
         <item android:title="Communicate">
             <menu>
                     android: id="@+id/nav share"
                     android:icon="@drawable/ic menu share"
                     android:title="Share" />
                     android: id="@+id/nav send"
                     android:icon="@drawable/ic menu send"
                      android:title="Send" />
             </menu>
         </item>
```



```
public class MainActivity extends AppCompatActivity
        implements NavigationView.OnNavigationItemSelectedListener { //Listener para el Menu
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar); //Configuración de Toolbar
        setSupportActionBar(toolbar);
        FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab); //Listener Boton flotante
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Snackbar.make(view, "Replace with your own action", Snackbar.LENGTH LONG)
                        .setAction("Action", null).show();
        1);
        DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer Layout); //Configuración DrawerLayout
                                                                                //Configurar acción del Draver layout
        ActionBarDrawerToggle toggle = new ActionBarDrawerToggle(
                this, drawer, toolbar, R.string.navigation drawer open, R.string.navigation drawer close);
        drawer.setDrawerListener(toggle);
        toggle.syncState();
        NavigationView navigationView = (NavigationView) findViewById(R.id.nav view); //COnfiguración del listener del menu
        navigationView.setNavigationItemSelectedListener(this);
```



```
@Override
public void onBackPressed() {
    DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer layout);
    if (drawer.isDrawerOpen(GravityCompat.START)) {
        drawer.closeDrawer(GravityCompat.START);
    } else {
        super.onBackPressed();
                                              public boolean onNavigationItemSelected(MenuItem item) {
                                                  // Handle navigation view item clicks here.
                                                  int id = item.getItemId();
                                                  if (id == R.id.nav camera) {
                                                     // Handle the camera action
                                                  } else if (id == R.id.nav gallery) {
                                                  } else if (id == R.id.nav slideshow) {
                Acciones del
                                                  } else if (id == R.id.nav manage) {
                          menú
                                                  } else if (id == R.id.nav share) {
                                                  } else if (id == R.id.nav send) {
                                                  DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer layout);
                                                  drawer.closeDrawer(GravityCompat.START);
                                                  return true:
```



Trabajo con Fragments

Ubicar un FrameLayout para contener los Fragments

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout</pre>
   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"
    app:layout behavior="android.support.design.widget.AppBarLayout$ScrollingVie..
    tools:context="com.edwinacubillos.drawerexample.MainActivity"
    tools:showIn="@layout/app bar main">
    <FrameLayout android:layout width="368dp"</pre>
        android:layout height="495dp"
        android:id="@+id/contenedorFrame"
        tools:layout editor absoluteY="8dp"
        tools:layout editor absoluteX="8dp">
   </FrameLayout>
```



Trabajo con Fragments

Se coloca el fragment

```
fm = getSupportFragmentManager();
ft = fm.beginTransaction();
h1 = new HotelUnoFragment();
ft.add(R.id.contenedorFrame, h1).commit();
```

Con e menú del Navigation se cambia el fragment

```
public boolean onNavigationItemSelected(MenuItem item) {
    // Handle navigation view item clicks here.
    int id = item.getItemId();

    //fm = getSupportFragmentManager();
    ft = fm.beginTransaction();

    if (id == R.id.nav_camera) {
        h2 = new HotelDosFragment();
        ft.replace(R.id.contenedorFrame,h2).commit();

        // Handle the camera action
```



Trabajo con Actividades

```
public boolean onNavigationItemSelected(MenuItem item) {
    // Handle navigation view item clicks here.
    int id = item.getItemId();
   if (id == R.id.nav camera) {
        Intent intent = new Intent(DrawerActivity.this, HotelesActivity.class);
        startActivity(intent);
        // Handle the camera action
     else if (id == R.id.nav gallery) {
        FragmentManager fm = getSupportFragmentManager();
        FragmentTransaction ft = fm.beginTransaction();
        HotelDosFragment fragment = new HotelDosFragment();
        ft.replace(R.id.contenedorFragment, fragment).commit();
    } else if (id == R.id.nav slideshow) {
    } else if (id == R.id.nav manage) {
    } else if (id == R.id.nav share) {
    } else if (id == R.id.nav send) {
```