

List View



List View



ListView

“A view that shows items in a vertically scrolling list. The items come from the ListAdapter associated with this view.”

<https://developer.android.com/reference/android/widget/ListView.html>

“ListView is a view group that displays a list of scrollable items. The list items are automatically inserted to the list using an Adapter that pulls content from a source such as an array or database query and converts each item result into a view that's placed into the list.”

<https://developer.android.com/guide/topics/ui/layout/listview.html>

ListView basics

```
<ListView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/member_list">
</ListView>
```

Listview basics

```
// Lookup ListView  
ListView listView =  
    (ListView) findViewById(R.id.member_list);
```

ListView basics

```
// Create Adapter
ListAdapter adapter = new ArrayAdapter<String>(this,
        android.R.layout.simple_list_item_1,
        members);
```

ListView basics

```
// Set listView's adapter to the new adapter  
listView.setAdapter(adapter);
```




ListViewExample

Irene Nilsson

Joakim Nilsson

Therese Lundqvist

Jan Lundqvist

Barbro Isaksson

Michael Isaksson

Ann Johnsson

Axel Johnsson

Elin Forsberg

Tomas Forsberg

Astrid Bengtsson

List View continued - clicks

```
listView.setOnItemClickListener(new ListView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> parent,
        final View view,
        int position /*The position of the view in the adapter.*/,
        long id /* The row id of the item that was clicked */) {
        Log.d(LOG_TAG,
            "item clicked, pos:" + position + " id: " + id);
    }
});
```

ListView continued - contextMenu

In your activity:

```
registerForContextMenu(listView);
```



ListViewExample

Irene Nilsson

Joakim Nilsson

Therese Lundqvist

Jan Lundqvist

B

Manager Tomas Forsberg

Delete

Duplicate

Axel Johnsson

Elin Forsberg

Tomas Forsberg

Astrid Bengtsson

Tobias Bengtsson

List View continued - contextMenu

```
// enum anyone? ;)  
private static final int MENU_ENTRY_DELETE = 0 ;  
private static final int MENU_ENTRY_DUPLICATE = 1 ;
```

List View continued - contextMenu

```
@Override
public void onCreateContextMenu(ContextMenu menu, View v,
                               ContextMenu.ContextMenuInfo menuInfo) {
    ListView listView = (ListView) v;
    AdapterView.AdapterContextMenuInfo acMenuInfo =
        (AdapterView.AdapterContextMenuInfo) menuInfo;
    String member =
        (String) listView.getItemAtPosition(acMenuInfo.position);

    menu.setHeaderTitle("Manager " + member);
    menu.add(Menu.NONE, MENU_ENTRY_DELETE, Menu.NONE, "Delete");
    menu.add(Menu.NONE, MENU_ENTRY_DUPLICATE, Menu.NONE, "Duplicate");

}
```

ListView continued - contextMenu

```
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    // get extra information set by the View that added this menu item
    AdapterView.AdapterContextMenuInfo info =
        (AdapterView.AdapterContextMenuInfo) item.getMenuInfo();

    Log.d(LOG_TAG, " itemId: " + item.getItemId());
    Log.d(LOG_TAG, " title: " + item.getTitle());
    if (item.getItemId() == MENU_ENTRY_DUPLICATE) {
        Log.d(LOG_TAG, " member: " + members.get(info.position));
        members.add(members.get(info.position));
        ((ListView) findViewById(R.id.member_list)).invalidateViews();
    }
    return true;
}
```