



# មជ្ឈមណ្ឌលកម្ពុជា សហប្រតិបត្តិការ អេច អ ឌី Korea Software HRD Center

## Adapter

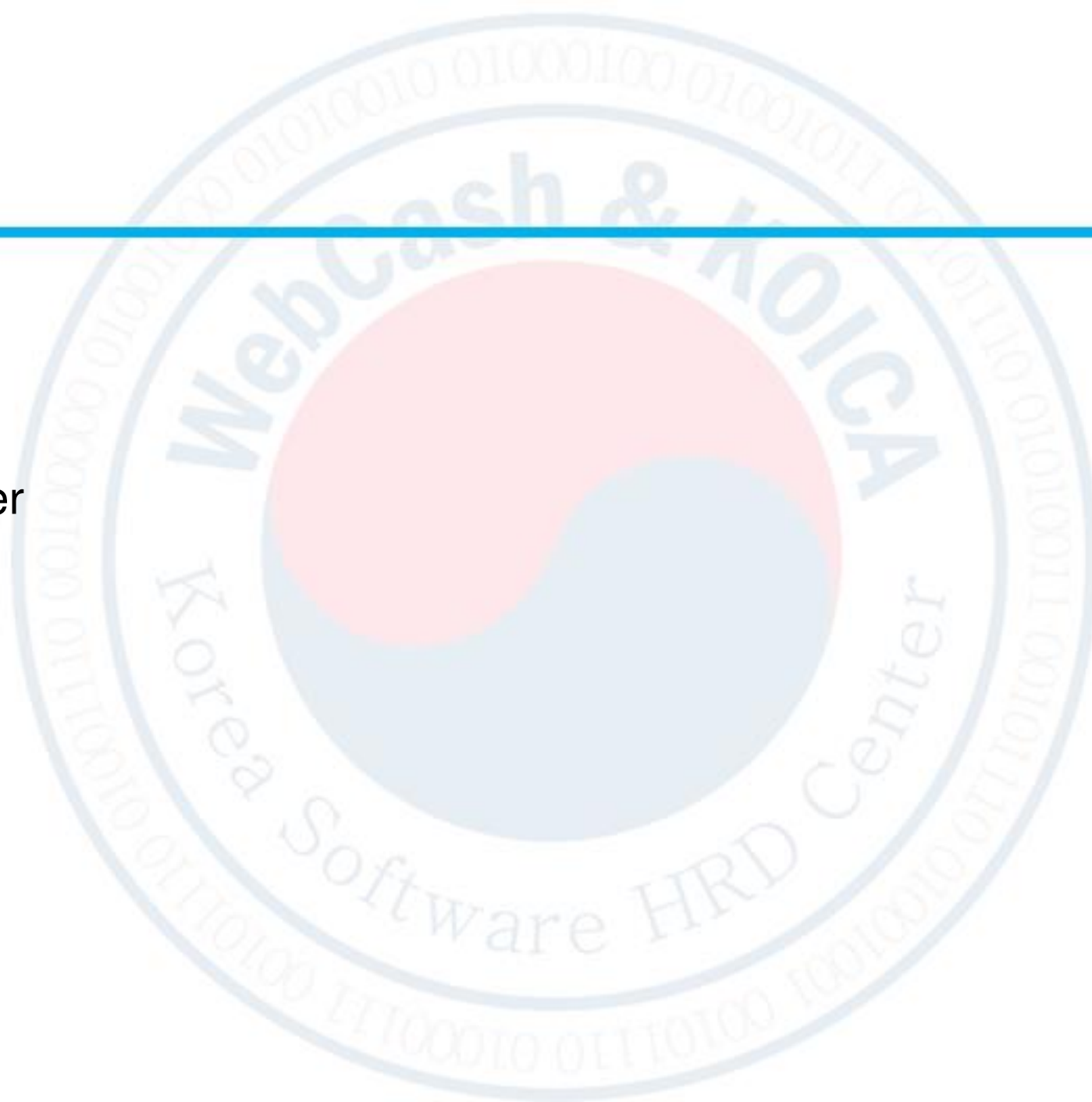
ណែនាំដោយ : បណ្ឌិត គឹម ថេឡុង  
លោក ជន ពីរ៉ង់



<http://www.kshrd.com.kh>

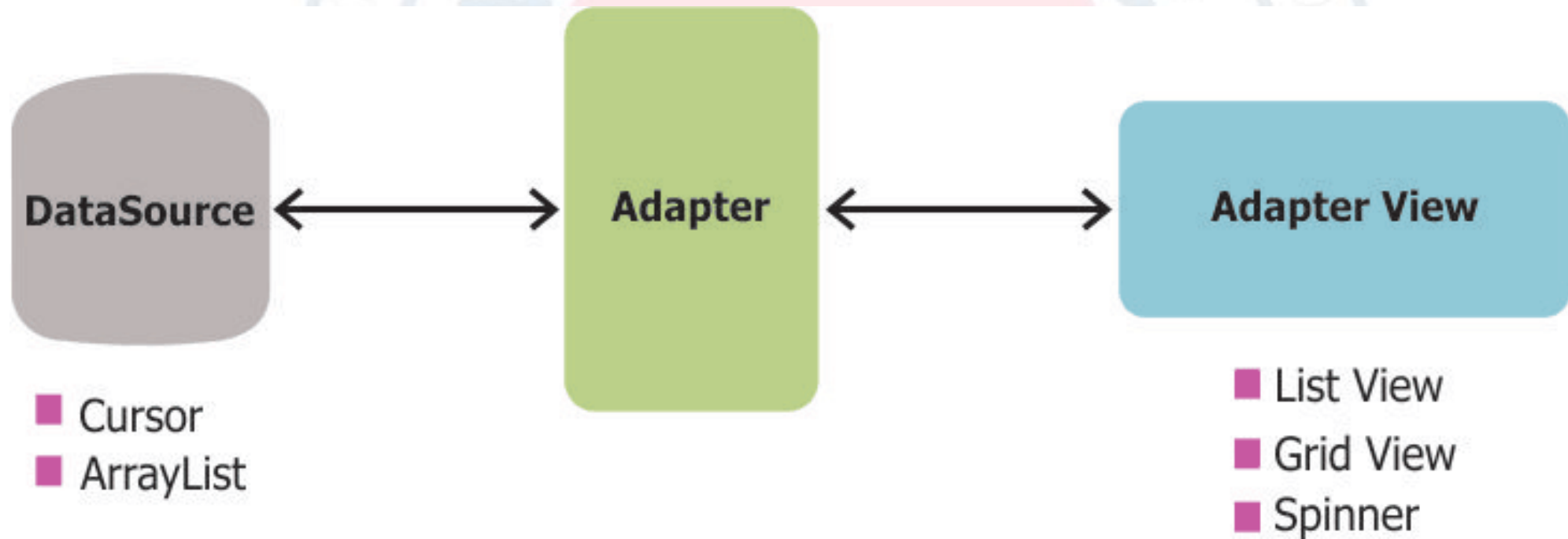


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୧. Array Adapter
  ୨. Base Adapter
  ୩. Custom Adapter
  ୪. ListView
  ୫. GridView
  ୬. RecyclerView
  ୭. CardView



## ១. Adapter

- Adapter ជា Interface ប្រើសំរាប់ជាស្ថានភាពភ្ជាប់ទំនាក់ទំនងរវាង Data Source និង Adapter View ។



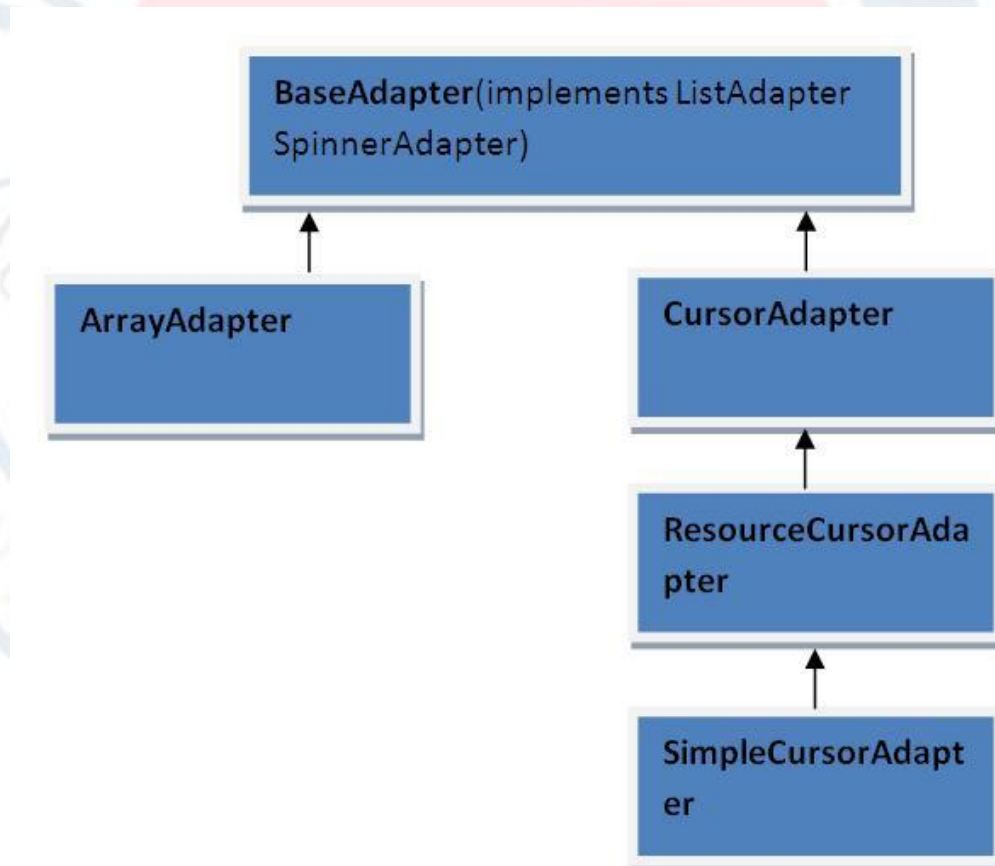
## ១. Array Adapter

- យើងអាចប្រើ ArrayAdapter ពេលដែលទិន្នន័យរបស់យើងជា Array មួយវិមាត្រ។ ជាធម្មតាប្រើជាមួយ Row Item យកចេញពី TextView។

ArrayAdapter ([Context](#) context,  
int resource,  
int textViewResourceId)

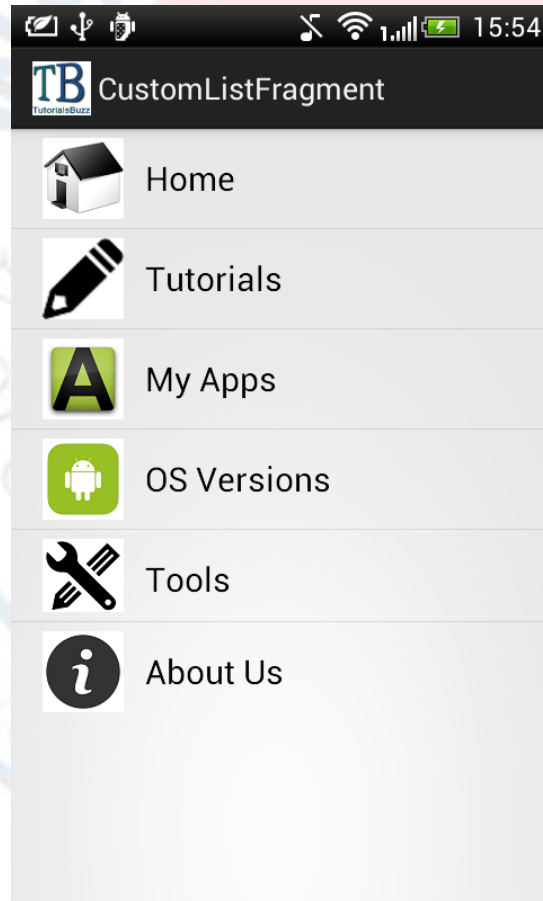
## ២. Base Adapter

- BaseAdapter គឺជា Base Class សំរាប់ធ្វើការអនុវត្ត Adapter។
- ជាទូទៅគេប្រើ Adapter នេះជាមួយ ListView និង Spinner



## ៣. Custom Adapter

- យើងអាចប្រើ Base Adapter ពេលយើងចង់បាន Layout ដែលយើងកំណត់ដោយខ្លួនឯង។





# ៤. List View

## 1. What is List View?

- List View គឺជា view ដែលភ្ជាប់ទៅដោយ view មួយឬច្រើនហើយបង្ហាញលក្ខណៈ Vertical scrollable list.
- List item នឹងត្រូវបានបញ្ចូលទៅក្នុង List View តាមរយៈ Adapter ដែលទាញតម្លៃពី Array ឬ Database.

## 6. List View (📋)

Attribute	Description
android:id	This is the ID which uniquely identifies the layout.
android:divider	This is drawable to draw between list items.
android:dividerheight	This specifies height of the divider. This could be in px, dp, sp, in, or mm.
android:entries	Specifies the reference to an array resource that will populate the ListView.
android:listselector	Define color or drawable for selected item



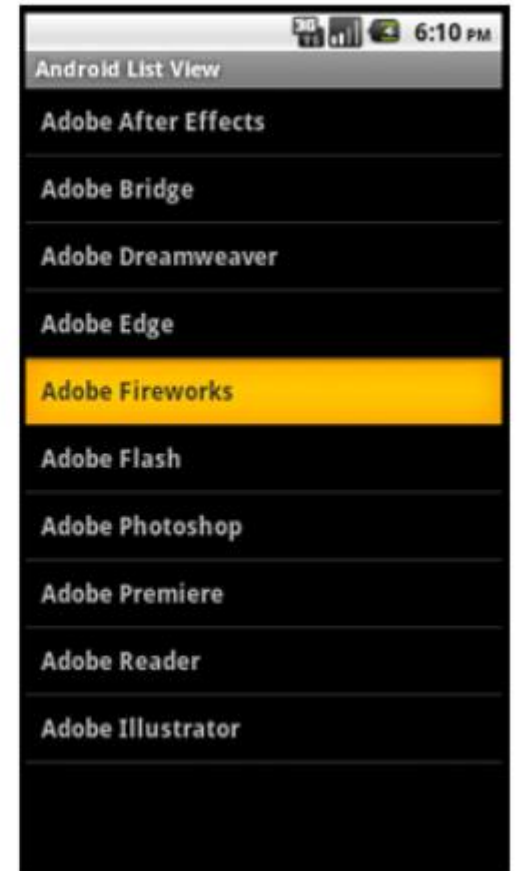
# 6. List View (📋)

## List View Output

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical" >

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

</LinearLayout>
```



## 6. List View (📋)

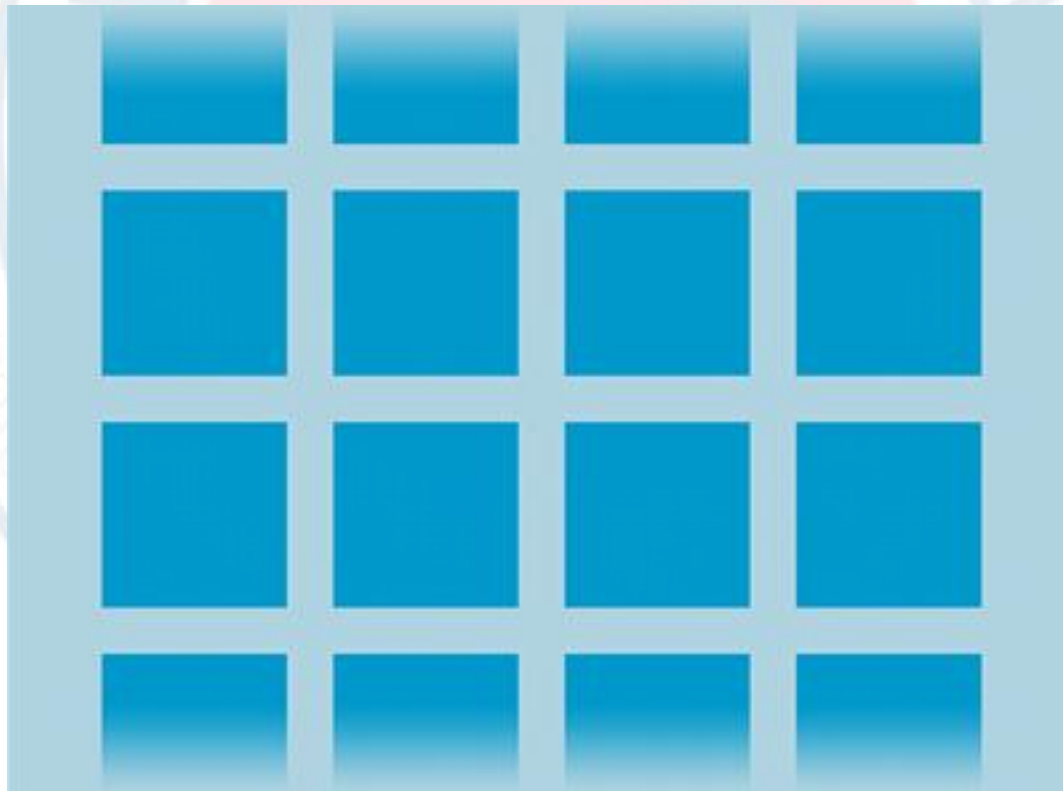
```
public class ListViewAndroidExample extends Activity {  
    ListView listView ;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_list_view_android_example);  
  
        // Get ListView object from xml  
        listView = (ListView) findViewById(R.id.list);  
  
        // Defined Array values to show in ListView  
        String[] values = new String[] { "Android List View",  
                                           "Adapter implementation",  
                                           "Simple List View In Android",  
                                           "Create List View Android",  
                                           "Android Example",  
                                           "List View Source Code",  
                                           "List View Array Adapter",  
                                           "Android Example List View"  
        };  
    }  
}
```

## 6. List View (📋)

```
listView.setOnItemClickListener(new OnItemClickListener() {  
  
    @Override  
    public void onItemClick(AdapterView<?> parent, View view,  
        int position, long id) {  
  
        // ListView Clicked item index  
        int itemPosition    = position;  
  
        // ListView Clicked item value  
        String itemValue    = (String) listView.getItemAtPosition(position);  
  
        // Show Alert  
        Toast.makeText(getApplicationContext(),  
            "Position :"+itemPosition+" ListItem : " +itemValue , Toast.LENGTH_LONG)  
            .show();  
  
    }  
});
```

## ៥. Grid View

- GridView បង្ហាញ Item ជាពីរវិមាត្រដែលអាច Scroll បាន គឺ ជួរឈរ និង ជួរដេក។
- Grid Items ត្រូវបានបញ្ចូលដោយ ListAdapter។



## ៦. Recycler View

- Recycler View គឺជាជំនាន់ថ្មីរបស់ ListView និង GridView ។
- នៅក្នុង RecyclerView យើងអាចបង្ហាញ Item ជា List, Grid ឬជា Staggered Grid view។

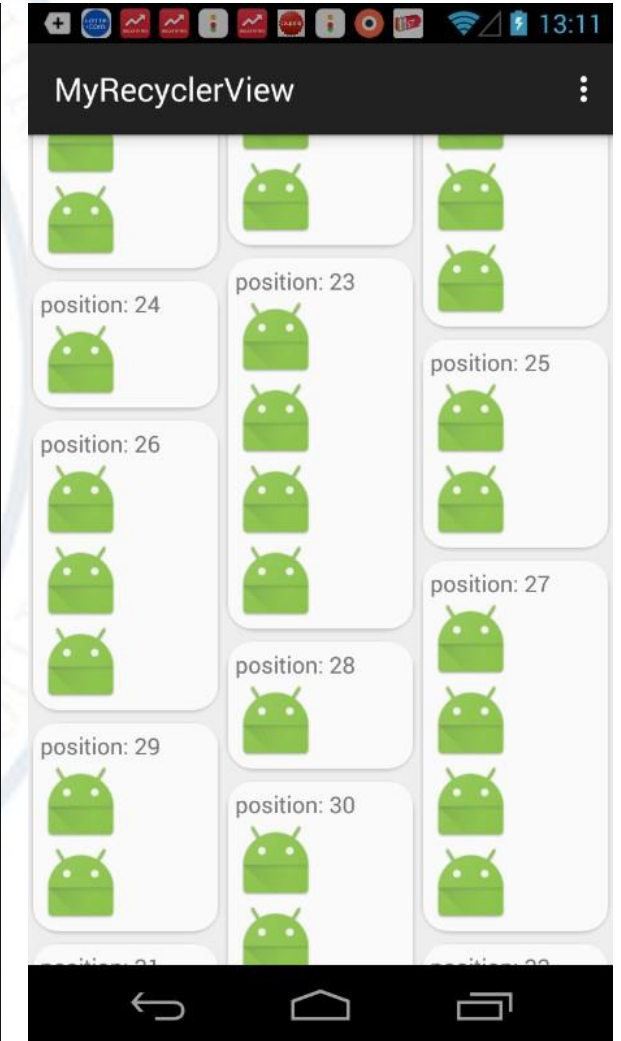
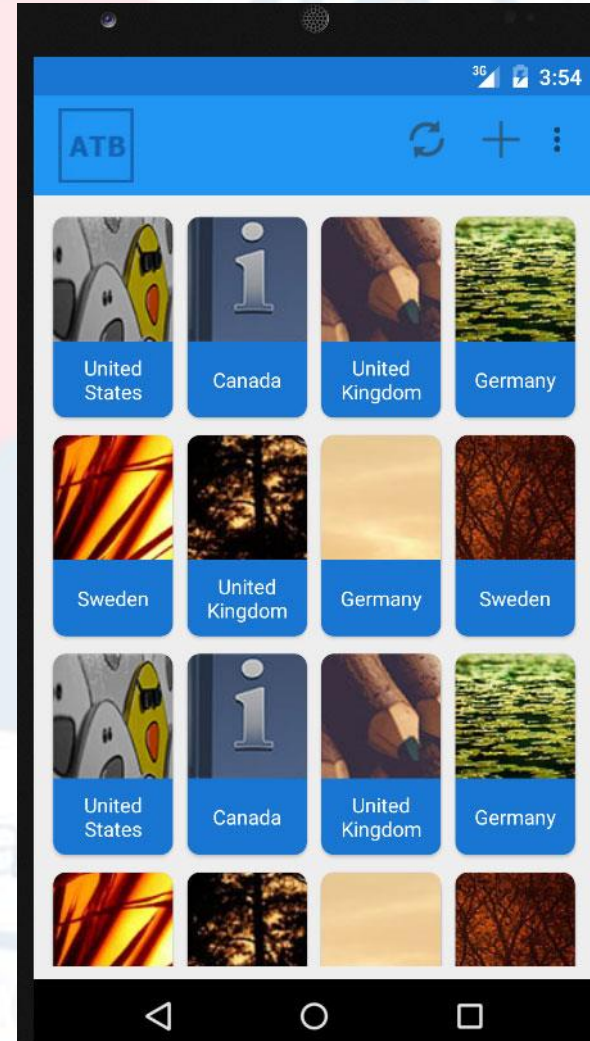
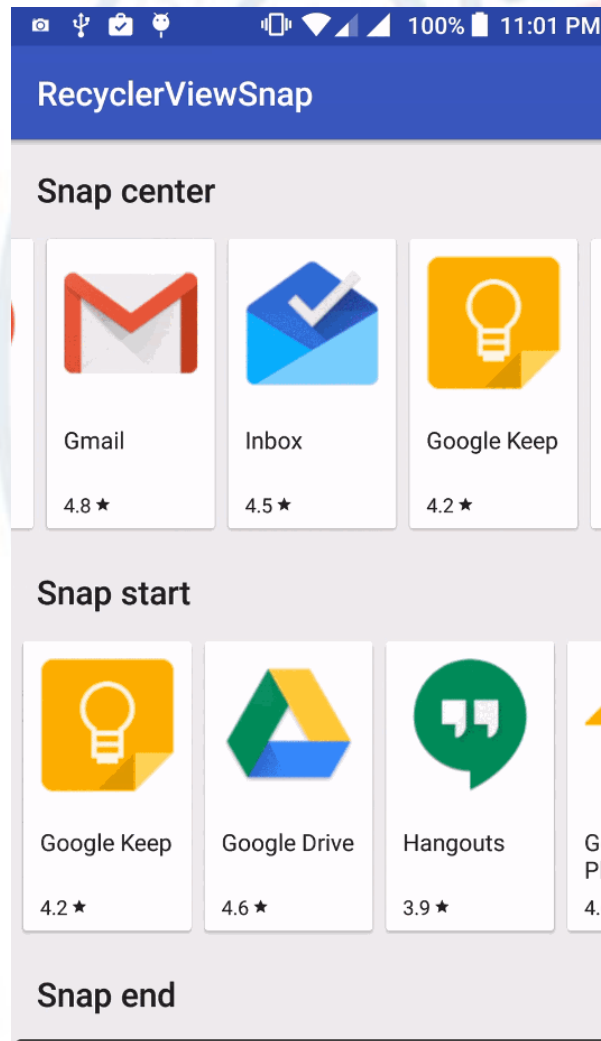
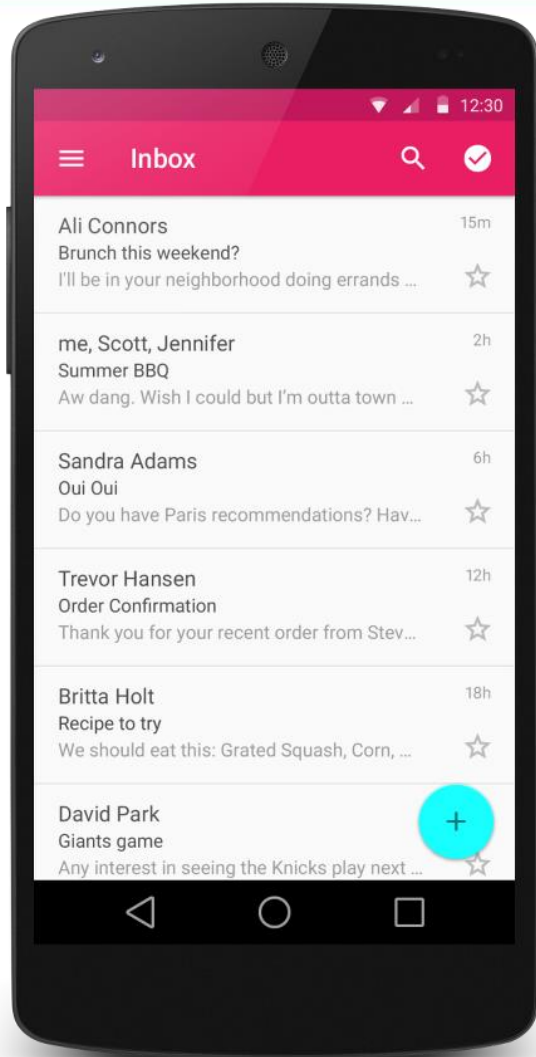


## ៦. Recycler View (ត)

- ចំពោះ RecyclerView វាត្រូវការជាចាំបាច់នូវ LayoutManager ដើម្បីកំណត់ទំរង់ដែល item ត្រូវបង្ហាញ
- Layout Manager មាន 3 ទំរង់ធំៗគឺ
  - LinearLayoutManager(Vertical(Default),Horizontal)
  - GridLayoutManager
  - StaggeredGridLayoutManager(Vertical,Horizontal)



# 6. Recycler View (ଟି)



## ៦. Recycler View (ត)

- ដើម្បីប្រើប្រាស់នូវ RecyclerView យើងត្រូវការ dependency :

`com.android.support:recyclerview-v7:25.0.0`

```
<!-- A RecyclerView with some commonly used attributes -->
<android.support.v7.widget.RecyclerView
    android:id="@+id/my_recycler_view"
    android:scrollbars="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"/>
```

## ៧. CardView

- Cardview extends the framelayout class និង អនុញ្ញាតអោយអ្នកបង្ហាញនៅក្នុង cardview ដែលមានរូបរាងមិនផ្លាស់ប្តូរនៅគ្រប់ platform ទាំងអស់

```
<!-- A CardView that contains a TextView -->
<android.support.v7.widget.CardView
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:id="@+id/card_view"
    android:layout_gravity="center"
    android:layout_width="200dp"
    android:layout_height="200dp"
    card_view:cardCornerRadius="4dp">
```

## ៧. CardView

- ដើម្បីប្រើប្រាស់នូវ Cardview យើងត្រូវការ dependency :

```
com.android.support:cardview-v7:21.0.+
```