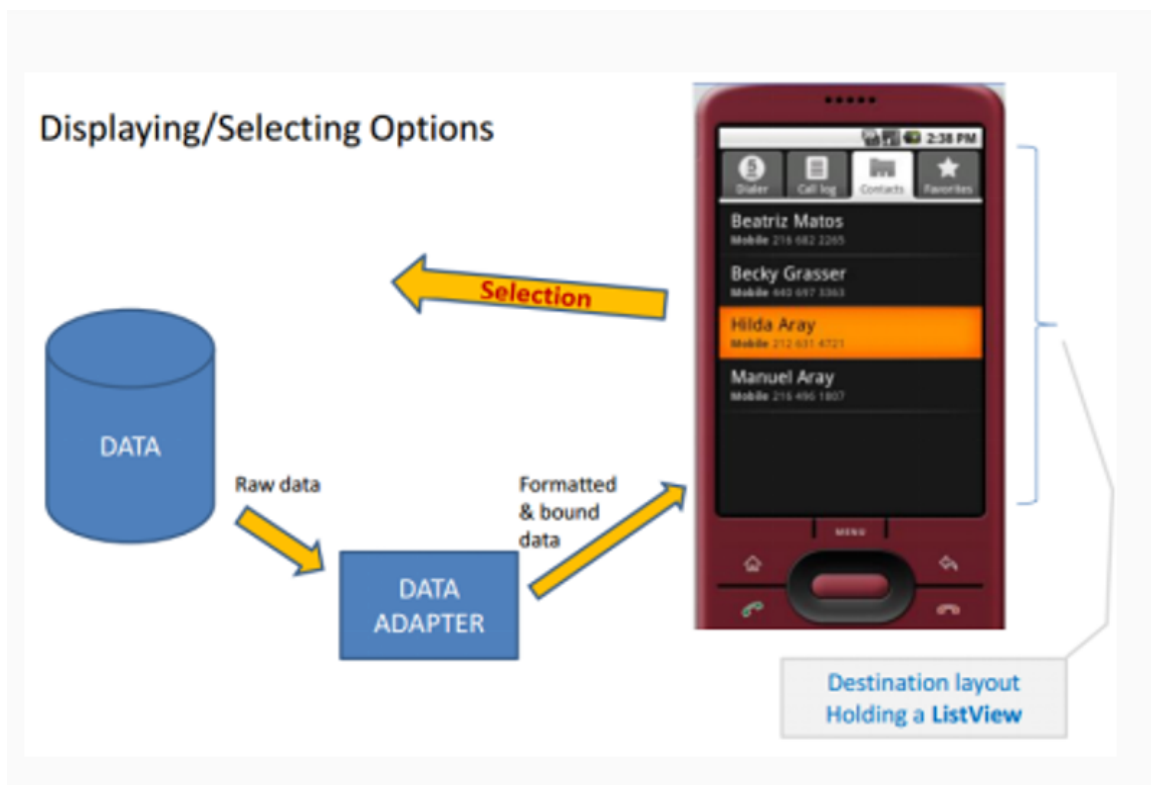




Widget

🕒 Created	@September 8, 2023 11:36 PM
🏷️ Tags	

- Radio Button, Check Button → small number of options
- List Box, Combo Box, Drop Down List, Picture Gallery → larger number of options
- Selection View/Widget - View/Widget display a list of options, controlled by an Adapter
 - eg: List View, Grid View, Spinner...



- Common Data Adapter

- BaseAdapter
- ArrayAdapter
- CursorAdapter
- SimpleCursorAdapter
- SpinnerAdapter
- WrapperListAdapter

```
String[] mobileArray = {"Android", "iPhone", "WindowsMobile",
    "Blackberry", "WebOS", "Ubuntu", "Windows7", "Max OS X"};

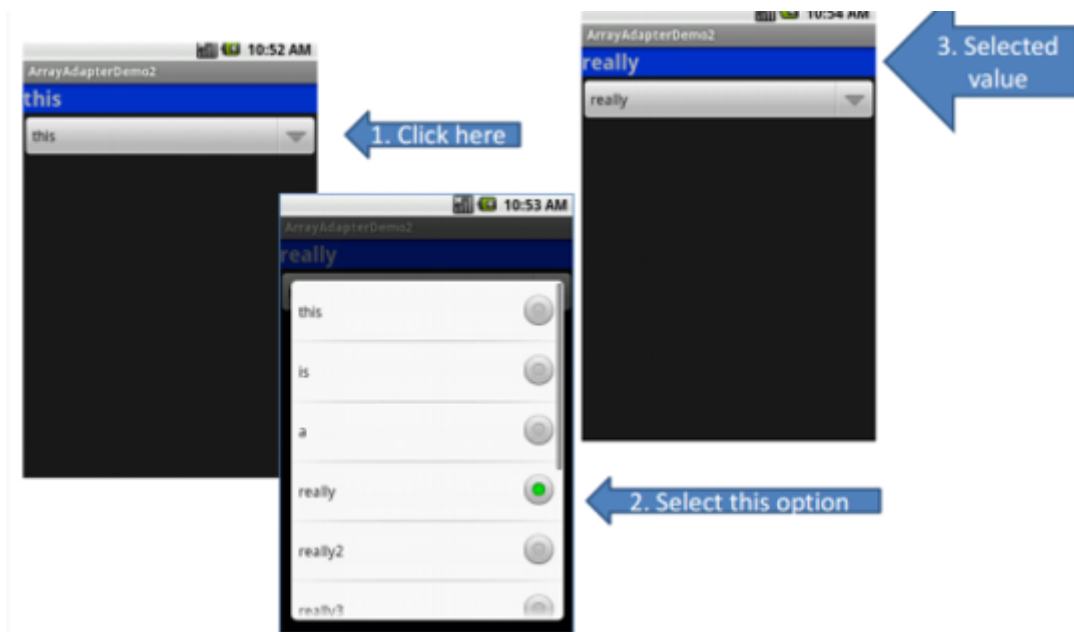
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_list_display);

    ArrayAdapter adapter = new ArrayAdapter<String>(this, R.layout.activity_listview, mobileArray);

    ListView listView = (ListView) findViewById(R.id.mobile_list);
    listView.setAdapter(adapter);
}
```

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

- Spinner = Drop Down



```

AdapterView.OnItemSelectedListener {
    TextView selection;
    String[] items =
    {"Android", "IPhone", "WindowsMobile",

    "Blackberry", "WebOS", "Ubuntu", "Windows7", "Max
    OS X"};

```

```

selection = (TextView) findViewById(R.id.selection);
Spinner spin = (Spinner) findViewById(R.id.spinner);
spin.setOnItemSelectedListener(this);

```

```

ArrayAdapter<String> aa = new ArrayAdapter<String>(
    this, android.R.layout.simple_spinner_item, items);

```

```

aa.setDropDownViewResource(
    android.R.layout.simple_spinner_dropdown_item);

```

```

spin.setAdapter(aa);

```

```

public void onItemSelected(
    AdapterView<?> parent, View v, int position, long id) {
    selection.setText(items[position]);
}
public void onNothingSelected(AdapterView<?> parent) {
    selection.setText("");
}

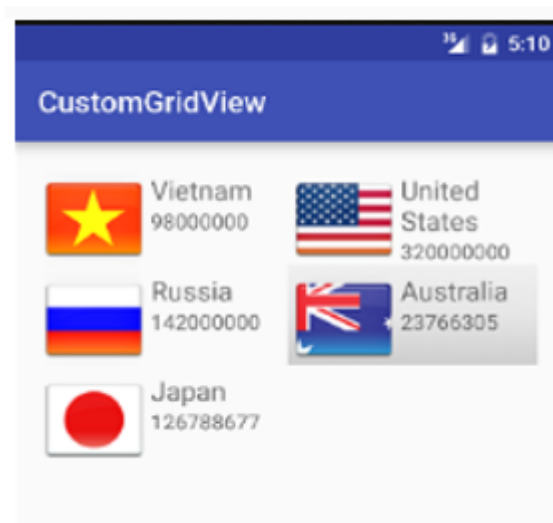
```

```

<TextView
    android:id="@+id/selection"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background="#ff0033cc"
    android:textSize="14pt"
    android:textStyle="bold"
>
</TextView>
<Spinner
    android:id="@+id/spinner"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
>
</Spinner>

```

- Grid View = scrollable grid



- `columnWidth` = dp, in, mm...
- `(horizontal/vertical)Spacing` = dp, in, mm...
- `gravity`
- `numColumns` = number/auto_fit
- `stretchMode` =
none/spacingWidth/columnWidth/spacingWidthUniform

```

        TextView selection;
        String[] items =
        {"Android","IPhone","WindowsMobile",
        "Blackberry","WebOS","Ubuntu","Windows7",
        "Max OS X"};

```

```

selection = (TextView) findViewById(R.id.selection);
GridView gv = (GridView) findViewById(R.id.grid);
ArrayAdapter<String> aa = new ArrayAdapter<String>(
    this,
    android.R.layout.simple_list_item_1,
    items );
gv.setAdapter(aa);
gv.setOnItemClickListener(this);

```

```

public void onItemClick(AdapterView<?> parent, View v,
                        int position, long id) {
    selection.setText(items[position]);
}

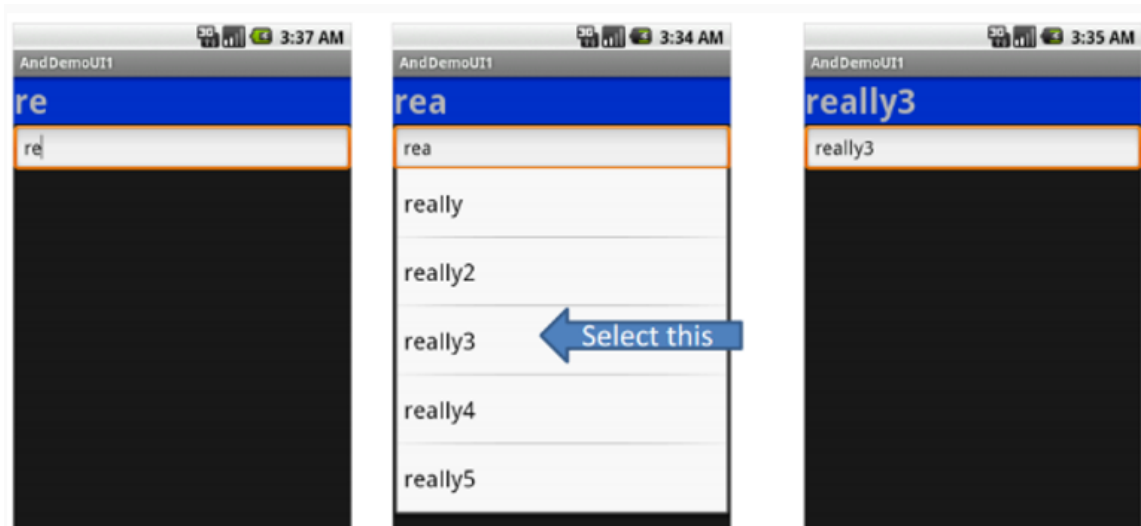
```

```

<TextView
    android:id="@+id/selection"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background="#ff0033cc"
    android:textSize="14pt"
    android:textStyle="bold"
>
</TextView>
<GridView
    android:id="@+id/grid"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:numColumns="2"
    android:stretchMode="columnWidth"
    android:gravity="center"
>
</GridView>

```

- AutoCompleteTextView = suggestion words



```

TextView selection;
AutoCompleteTextView edit;
String[] items =
{"Android", "iPhone", "WindowsMobile",
    "Blackberry", "WebOS", "Ubuntu", "Windows7",
    "Max OS X"};

```

```

        selection = (TextView)
findViewById(R.id.selection);
        edit = (AutoCompleteTextView)
findViewById(R.id.edit);
        edit.addTextChangedListener(this);
        edit.setAdapter(new ArrayAdapter<String>(this,
android.R.layout.simple_dropdown_item_1line, items));

```

```

    public void onTextChanged(CharSequence s, int start,
int before, int count) {
        selection.setText(edit.getText());
    }
    public void beforeTextChanged(CharSequence s, int
start,
                                int count, int after) {
    }
    public void afterTextChanged(Editable s) {
    }

```

```
<TextView
    android:id="@+id/selection"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background="#ff0033cc"
    android:textSize="14pt"
    android:textStyle="bold"
/>
<AutoCompleteTextView
    android:id="@+id/edit"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:completionThreshold="3"/>
```

3 ký tự mới bắt đầu hiện