



Android Class

#Android Notes

Grid View in Android



Grid View

- Android GridView shows items in two-dimensional scrolling grid (rows & columns)
- The list items are automatically inserted to the list using an Adapter that pulls content from a source such as an array or database.





Properties Of Gridview

No	Attribute Name	Description
1	android:id	This is the ID which uniquely identifies the layout.
2	android:horizontalSpacing	Defines the default horizontal spacing between columns. This could be in px, dp & sp.
3	android:columnWidth	This specifies the fixed width for each column. This could be in px, dp & sp.
4	android:numColumns	Defines how many columns to show.
5	android:verticalSpacing	Defines the default vertical spacing between rows. This could be px, dp & sp.



What is Adapter?

- •An adapter actually bridges between UI components and the data source that fill data into UI Component.
- Adapter holds the data and send the data to adapter view.
- The view can takes the data from adapter view and shows the data on different views like as spinner, list view, grid view etc.
- The ListView and GridView are subclasses of AdapterView.



Array Adapter?

Array adapter used when your data source is an array.

 By default, ArrayAdapter creates a view for each array item by calling toString() on each item and placing the contents in a TextView.

Once you have array adapter created, then simply call setAdapter() method on your ListView object.

Syntax

Syntax:-

```
ArrayAdapter adapter = new
ArrayAdapter<String>(this,R.layout.ListView,StringArray);
```

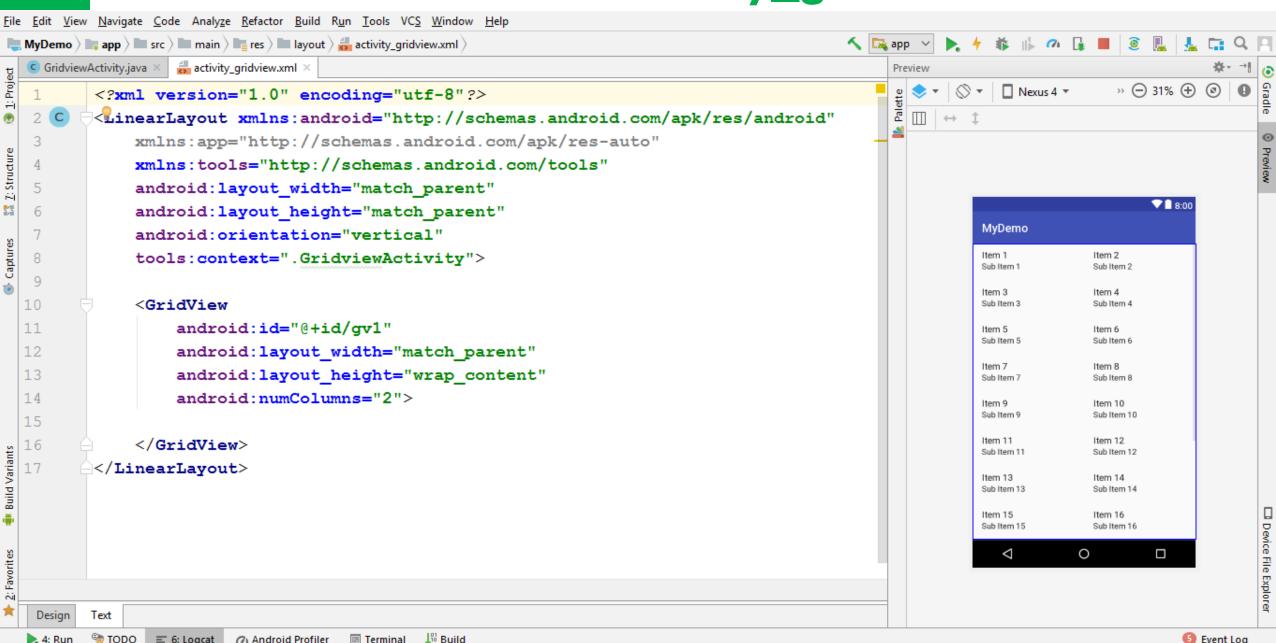
- Here,
 - First argument this is the application context.
 - Second argument will be layout defined in XML file and having TextView for each string in the array.
 - Third argument is an array of strings which will be populated in the text view.







Screenshot Of activity_gridview.xml



(7) Android Profiler

= 6: Logcat

Terminal

Screenshot Of ListviewActivity.java

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
 MyDemo > Image app > Image app
        GridviewActivity.java ×
                                                              activity_gridview.xml
                                package com.example.devanshi.mydemo;
                            ±import ...
                                public class GridviewActivity extends AppCompatActivity {
                                               GridView qv1;
                                                String course[]={"ANDROID", "PHP", "IOS", "C", "ANGULAR JS", "IONIC", "WORDPRESS", "JAVA", "C#", "HTML",
                                                                              "FIREBASE", "C++", "NODE JS", "REACT JS", "PYTHON", "MAGENTO", "BOOTSTRAP" };
                                                @Override
      19 0
                                               protected void onCreate(Bundle savedInstanceState) {
                                                               super.onCreate(savedInstanceState);
                                                                setContentView(R.layout.activity gridview);
                                                               gv1=findViewById(R.id.gv1);
                                                              ArrayAdapter<String> arrayAdapter=new ArrayAdapter<~>
                                                                                               ( context: this, android.R.layout.simple list item 1, course);
                                                               gv1.setAdapter(arrayAdapter);
```

Output





Click Event Of Gridview

To set click event on every item of Gridview setOnItemClickListener is used.

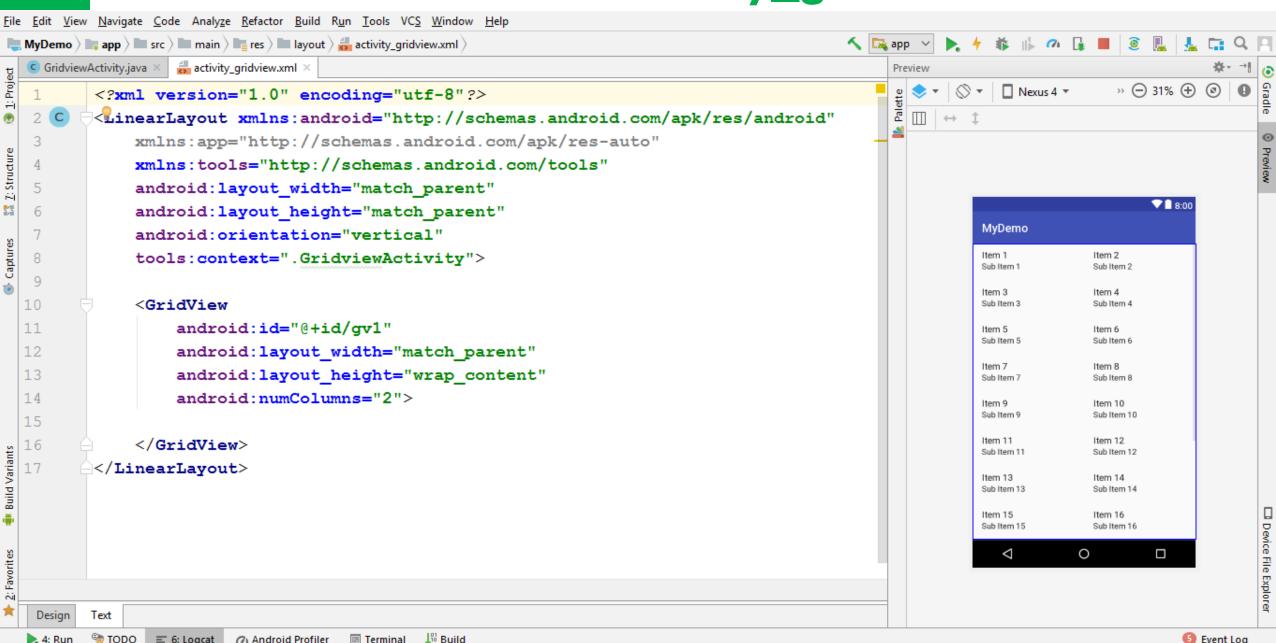
Syntax:-







Screenshot Of activity_gridview.xml

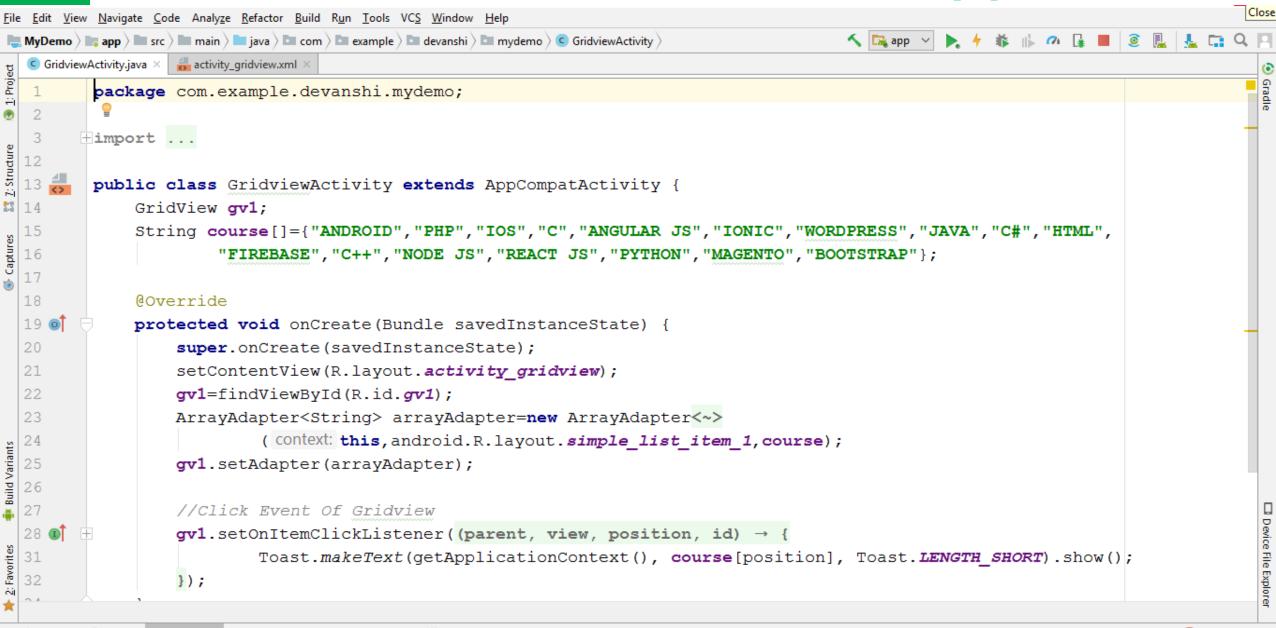


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Screenshot Of ListviewActivity.java



Event Log

J[™] Build

Terminal

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Cont...

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
 MyDemo > Image app > Image ap
       1: Project
      15
                                           String course[]={"ANDROID", "PHP", "IOS", "C", "ANGULAR JS", "IONIC", "WORDPRESS", "JAVA", "C#", "HTML",
                                                                      "FIREBASE", "C++", "NODE JS", "REACT JS", "PYTHON", "MAGENTO", "BOOTSTRAP" };
                                           @Override
      19 0
                                          protected void onCreate(Bundle savedInstanceState) {
20
                                                         super.onCreate(savedInstanceState);
                                                        setContentView(R.layout.activity gridview);
                                                        gv1=findViewById(R.id.gv1);
                                                        ArrayAdapter<String> arrayAdapter=new ArrayAdapter<~>
                                                                                     ( context: this, android.R.layout.simple list item 1, course);
      25
                                                        gv1.setAdapter(arrayAdapter);
      26
      27
                                                        //Click Event Of Gridview
      28 📭
                                                        gv1.setOnItemClickListener((parent, view, position, id) → {
      31
                                                                                   Toast.makeText(getApplicationContext(), course[position], Toast.LENGTH SHORT).show();
                                                        });
      36
                           Event Log
       4: Run
                                                                                                                                         J<sup>™</sup> Build
                                                                          (7) Android Profiler
                                                                                                                Terminal
```

Output







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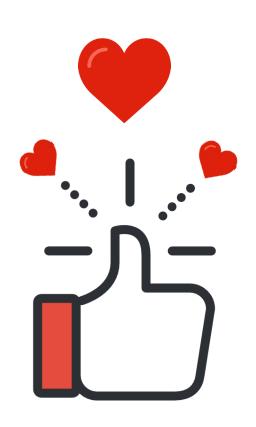
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