

Android UI Control [DatePicker]

Android – UI Control

DatePicker

- DatePicker is a control that will allow users to select the date by a day, month and year in our application user interface.
- If we use **DatePicker** in our application, it will ensure that the users will select a valid date.
- Following is the pictorial representation of using a datepicker control in android applications.



• Generally, in android DatePicker available in two modes, one is to show the complete calendar and another one is to show the dates in spinner view.

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Create Android DatePicker in XML Layout File

 We can create a DatePicker in XML layout file using <DatePicker> element with different attributes like as shown below

```
<DatePicker android:id="@+id/datePicker1"
android:layout_width="wrap_content"
android:layout_height="wrap_content" />
```

• The DatePicker supports a two types of modes, those are **Calendar** and **Spinner** to show the date details in our application.

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Android DatePicker with Calendar Mode

- We can define android DatePicker to show only a calendar view by using DatePicker android:datePickerMode attribute.
- Following is the example of showing the DatePicker in Calendar mode.

```
<DatePicker
android:id="@+id/datePicker1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:datePickerMode="calendar"/>
```

 The above code snippet will return the DatePicker in android like as shown in fig



• If you observe the above result we got the DatePicker in calendar mode to select a date based on our requirements.

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Android DatePicker with Spinner Mode

- If we want to show the DatePicker in spinner format like showing day, month and year separately to select the date, then by using DatePicker android:datePickerMode attribute we can achieve this.
- Following is the example of showing the DatePicker in Spinner mode.

<DatePicker
android:id="@+id/datePicker1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:datePickerMode="spinner"/>

 The above code snippet will return the DatePicker in android like as shown in fig



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Android DatePicker with Spinner Mode

- If you observe the above result we got the DatePicker in both Spinner and Calendar modes to select the date.
- To get only spinner mode date selection, then we need to set android:calendarViewShown="false" attribute in DatePicker control like as shown below.

<DatePicker
android:id="@+id/datePicker1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:datePickerMode="spinner"
android:calendarViewShown="false"/>

android:datePickerMode="spinner"

android:calendarViewShown="false"/>

The above code will return the DatePicker like as shown in fig

2016

2017

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Android DatePicker Control Attributes

Attribute	Description
android:id	It is used to uniquely identify the control
android:datePickerMode	It is used to specify datepicker mode either spinner or calendar
android:background	It is used to set the background color for the date picker.
android:padding	It is used to set the padding for left, right, top or bottom of the date picker.

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Android DatePicker Example

- In this example we define one **DatePicker** control, one **TextView** control and one **Button** control in **RelativeLayout** to show the selected date on **Button** click in the android application.
- Create a new android application using android studio and give names as DatePickerExample.
- Now open an activity_main.xml file from \res\layout path and write the code like as shown below

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Android DatePicker Example

```
activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk
/res/android"
  android:layout width="match parent"
android:layout height="match parent">
  <DatePicker
    android:id="@+id/datePicker1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout centerHorizontal="true"
    android:layout marginTop="20dp" />
  <Button
    android:id="@+id/button1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout below="@+id/datePicker1"
    android:layout marginLeft="100dp"
    android:text="Get Date" />
```

```
<TextView
android:id="@+id/textView1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@+id/button1"
android:layout_marginLeft="100dp"
android:layout_marginTop="10dp"
android:textStyle="bold"
android:textSize="18dp"/>
</RelativeLayout>
```

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Android DatePicker Example

```
MainActivity.java
package com.tutlane.datepickerexample;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  DatePicker picker;
  Button btnGet:
  TextView tvw:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    tvw=(TextView)findViewById(R.id.textView1);
    picker=(DatePicker)findViewById(R.id.datePicker1);
    btnGet=(Button)findViewById(R.id.button1);
    btnGet.setOnClickListener(new View.OnClickListener() {
```

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Android DatePicker Example

```
@Override
    public void onClick(View v) {
        tvw.setText("Selected Date: "+ picker.getDayOfMonth()+"/"+
(picker.getMonth() + 1)+"/"+picker.getYear());
     }
});
}
```

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Output of Android DatePicker Example



