

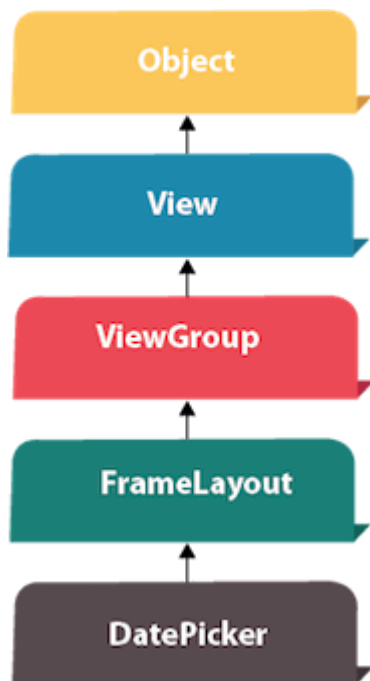
Date Picker:

Android DatePicker is a widget to select date.

It allows you to select date by day, month and year.

Like DatePicker, android also provides TimePicker to select time.

The android.widget.DatePicker is the subclass of FrameLayout class.



## Methods of DatePicker

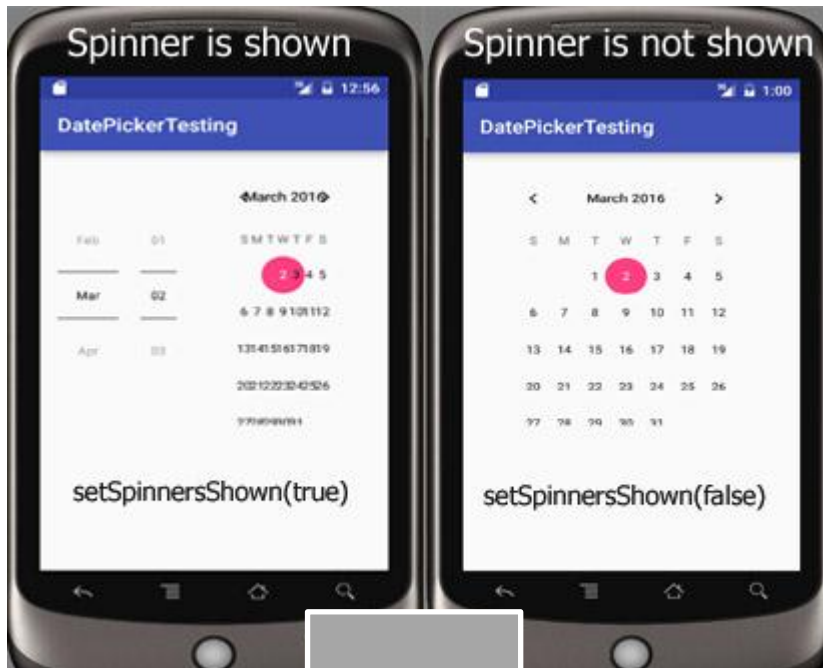
### 1. setSpinnersShown(boolean shown):

This method is used to set whether the **spinner** of the **date picker** is shown or not. In this method you have to set a Boolean value either true or false. True indicates **spinner** is shown, false value indicates **spinner** is not shown. Default value for this function is true.

Below we show the use of setSpinnerShown() function by setting false value.

```
DatePicker simpleDatePicker = (DatePicker)findViewById(R.id.simpleDatePicker); //  
initiate a date picker
```

```
simpleDatePicker.setSpinnersShown(false); // set false value for the spinner shown function
```



## 2. `getDayOfMonth():`

This method is used to get the selected day of the month from a [date picker](#). This method returns an integer value.

Below we get the selected day of the month from a [date picker](#).

```
/*Add in Oncreate() funtion after setContentView()*/  
DatePicker simpleDatePicker = (DatePicker) findViewById(R.id.simpleDatePicker); //  
initiate a date picker  
int day = simpleDatePicker.getDayOfMonth(); // get the selected day of the month
```

## 3. `getMonth():`

This method is used to get the selected month from a date picker. This method returns an integer value.

Below we get the selected month from a date picker.

```
DatePicker simpleDatePicker = (DatePicker) findViewById(R.id.simpleDatePicker); //  
initiate a date picker  
int month = simpleDatePicker.getMonth(); // get the selected month
```

## 4. `getYear():`

This method is used to get the selected year from a date picker. This method returns an integer value.

Below code is used to get the selected year from a date picker.

```
DatePicker simpleDatePicker = (DatePicker)findViewById(R.id.simpleDatePicker); // initiate a date picker
int year = simpleDatePicker.getYear(); // get the selected year
```

### 5. **getFirstDayOfWeek():**

This method is used to get the first day of the week. This method returns an integer value.

Below code is used to get the first day of the week.

```
DatePicker simpleDatePicker = (DatePicker)findViewById(R.id.simpleDatePicker);
// initiate a date picker

int firstDay=simpleDatePicker.getFirstDayOfWeek();
// get the first day of the week
```

## Attributes of DatePicker

Now let's we discuss some important attributes that helps us to configure a DatePicker in your [XML](#) file (layout).

**1. id:** id is an attribute used to uniquely identify a date picker.

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

**2. datePickerMode:** This attribute is used to set the Date Picker in mode either spinner or calendar. Default mode is calendar but this mode is not used after api level 21, so from api level 21 you have to set the mode to spinner.

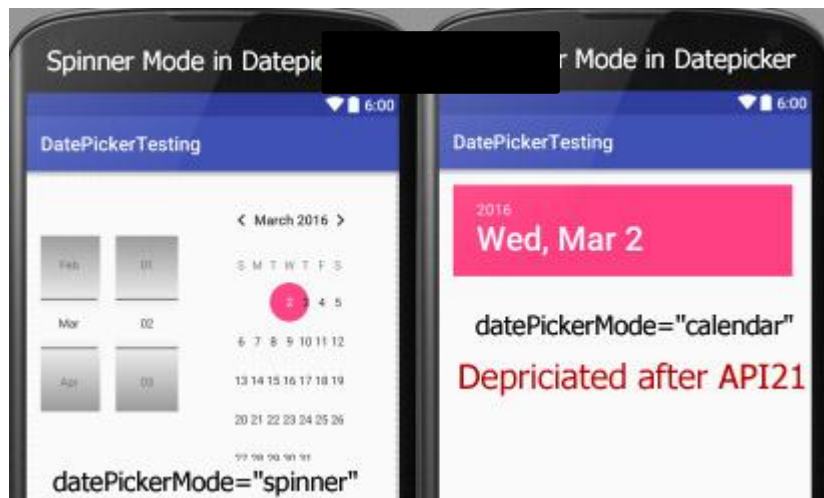
Below is an example code in which we set the mode to spinner for a date picker.

```
<DatePicker
android:id="@+id/simpleDatePicker"
android:layout_width="wrap_content"
```

```

android:layout_height="wrap_content"
android:datePickerMode="spinner" /> <!-- spinner mode of a date picker -->

```



**3. background:** background attribute is used to set the background of a date picker. We can set a color or a drawable image in the background.

Below we set the red color for the background of a date picker.

```

<DatePicker
    android:id="@+id/simpleDatePicker"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:datePickerMode="spinner"
    android:background="#f00"/> <!-- red color for the background of the date picker -
->

```



### Setting background of DatePicker In Java Class:

```
DatePicker simpleDatePicker=(DatePicker)findViewById(R.id.simpleDatePicker); // initiate a date picker

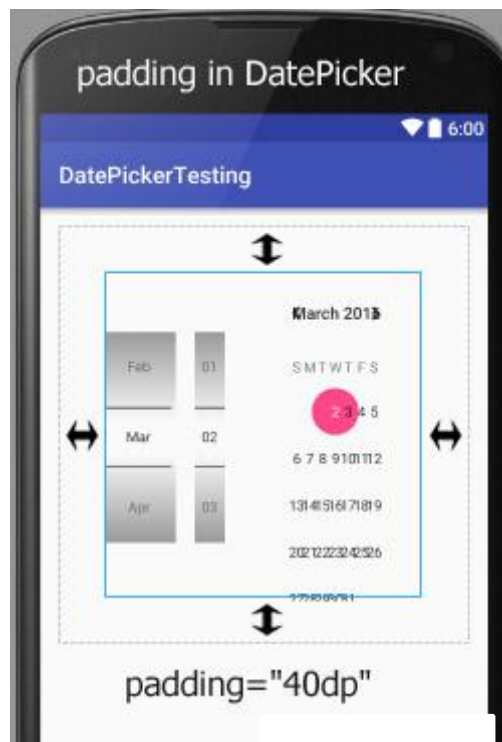
simpleDatePicker.setBackgroundColor(Color.RED); // red color for the background of a date picker
```

**4. padding:** padding attribute is used to set the padding from left, right, top or bottom for a date picker.

- **paddingRight:** set the padding from the right side of the date picker.
- **paddingLeft:** set the padding from the left side of the date picker.
- **paddingTop:** set the padding from the top side of the date picker.
- **paddingBottom:** set the padding from the bottom side of the date picker.
- **Padding:** set the padding from the all side's of the date picker.

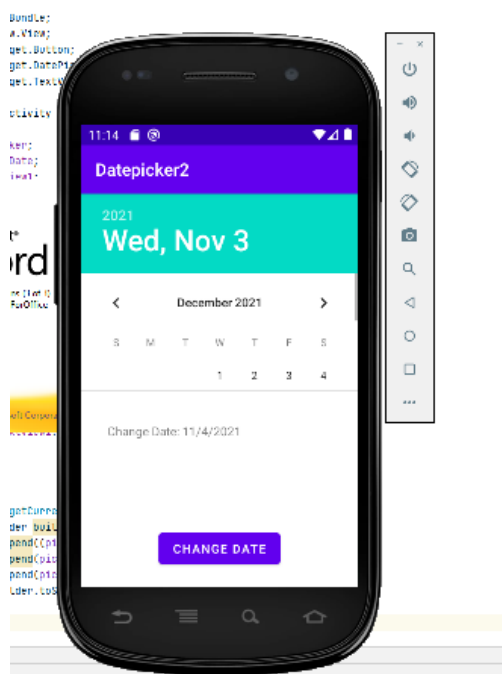
Below code of padding attribute set the 40dp padding from all the side's of the date picker.

```
<DatePicker
android:id="@+id/simpleDatePicker"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:datePickerMode="spinner"
android:padding="40dp"/> <!-- 40dp padding from all the sides of a date picker -->
```



Sr.No	Method & description
1	<p><b>getDayOfMonth()</b></p> <p>This method gets the selected day of month</p>
2	<p><b>getMonth()</b></p> <p>This method gets the selected month</p>
3	<p><b>getYear()</b></p> <p>This method gets the selected year</p>
4	<p><b>setMaxDate(long maxDate)</b></p> <p>This method sets the maximal date supported by this DatePicker in milliseconds since January 1, 1970 00:00:00 in getDefault() time zone</p>
5	<p><b>setMinDate(long minDate)</b></p> <p>This method sets the minimal date supported by this NumberPicker in milliseconds since January 1, 1970 00:00:00 in getDefault() time zone</p>
6	<p><b>setSpinnersShown(boolean shown)</b></p> <p>This method sets whether the spinners are shown</p>
7	<p><b>updateDate(int year, int month, int dayOfMonth)</b></p> <p>This method updates the current date</p>
8	<p><b>getCalendarView()</b></p> <p>This method returns calendar view</p>
9	<p><b>getFirstDayOfWeek()</b></p> <p>This Method returns first day of the week</p>

## Example :1



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button1"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_marginBottom="102dp"
        android:layout_marginLeft="30dp"
        android:layout_marginStart="30dp"
        android:text="" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="20dp"
        android:text="Change Date" />
```



```

<DatePicker
    android:id="@+id/datePicker"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/textView1"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="36dp" />

</RelativeLayout>

package com.example.datepicker2;

import androidx.appcompat.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 displayDate;
    TextView textView1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        textView1=(TextView) findViewById(R.id.textView1);
        picker=(DatePicker) findViewById(R.id.datePicker);
        displayDate=(Button) findViewById(R.id.button1);

        textView1.setText("Current Date: "+getCurrentDate());

        displayDate.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                textView1.setText("Change Date: "+getCurrentDate());
            }
        });
    }
    public String getCurrentDate() {
        StringBuilder builder=new StringBuilder();
        builder.append((picker.getMonth() + 1)+" /");//month is 0 based
        builder.append(picker.getDayOfMonth()+" /");
        builder.append(picker.getYear());
        return builder.toString();
    }
}

```