

Android Spinner – Kotlin Example

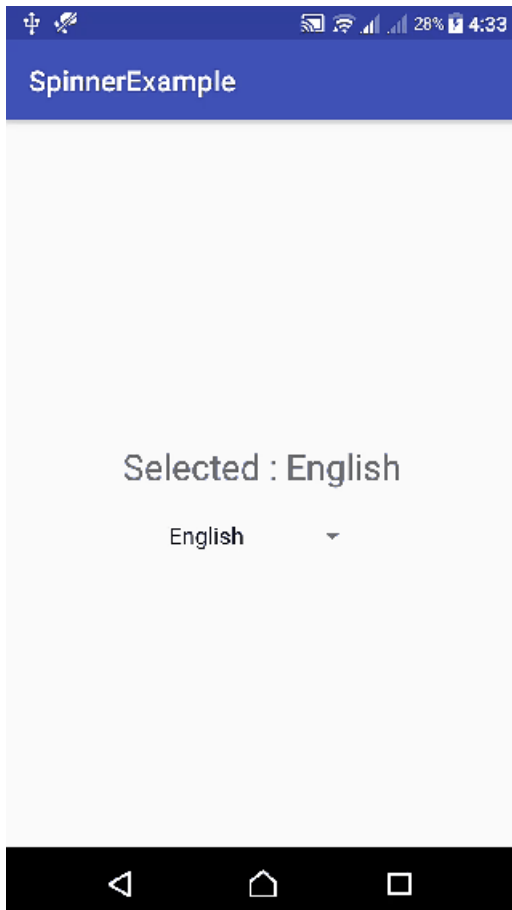
Android Spinner in Kotlin

Android Spinner is a view that displays one child at a time and when user clicks on it, it lets the user pick among multiple values.

In this tutorial, we will learn how to create a Spinner in layout file, and how to set listener for the Spinner to serve user actions like clicking on the Spinner, selecting a value from Spinner, etc.

Code – Android Spinner

The following GIF shows how an Android Spinner looks, and how user could interact with it.



Android Spinner Code

A quick code snippet to use Android Spinner in layout and Kotlin file is as shown in the following respectively.

```
<Spinner
    android:id="@+id/spinner"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"/>
```

```

import android.view.View
import android.widget.*

class MainActivity : /** Other Classes, */ AdapterView.OnItemClickListener {

    var list_of_items = arrayOf("Item 1", "Item 2", "Item 3")

    override fun onCreate(savedInstanceState: Bundle?) {
        spinner!!.setOnItemSelectedListener(this)

        // Create an ArrayAdapter using a simple spinner layout and languages array
        val aa = ArrayAdapter(this, android.R.layout.simple_spinner_item, list_of_items)
        // Set layout to use when the list of choices appear
        aa.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item)
        // Set Adapter to Spinner
        spinner!!.setAdapter(aa)
    }

    override fun onItemClick(arg0: AdapterView<*>, arg1: View, position: Int, id: Long) {
        // use position to know the selected item
    }

    override fun onNothingSelected(arg0: AdapterView<*>) {

    }
}

```

By default, the first element of the specified list is selected in the Spinner.

Following is a step by step guide of what is happening in the above code snippet to use Spinner

Step 1: Create a Spinner in layout file.

```

<Spinner
    android:id="@+id/spinner_sample"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"/>

```

Step 2: Add AdapterView.OnItemClickListener to the interface list of your Activity.

```

class MainActivity : /** Other Classes, */ AdapterView.OnItemClickListener {
}

```

Step 3: Prepare an array of elements to be shown in Spinner view.

```

var list_of_items = arrayOf("Item 1", "Item 2", "Item 3")

```

Step 4: Set setOnItemSelectedListener to the Spinner.

```

spinner!!.setOnItemSelectedListener(this)

```

Step 5: Create an ArrayAdapter with the list of items and default layouts.

```
val array_adapter = ArrayAdapter(this, android.R.layout.simple_spinner_item, list_of_items)
array_adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item)
```

Step 6: Set ArrayAdapter to Spinner.

```
spinner!!.setAdapter(array_adapter)
```

Step 7: We have to override the following three methods of AdapterView.OnItemSelectedListener.

```
override fun onItemSelected(arg0: AdapterView<*>, arg1: View, position: Int, id: Long) {
    textView_msg!!.text = "Selected : "+languages[position]
}

override fun onNothingSelected(arg0: AdapterView<*>) {
}
```

Example – Android Spinner

Following are the details of the Android Application we created for this example.

Application Name	SpinnerExample
Company name	tutorialkart.com
Minimum SDK	API 21: Android 5.0 (Lollipop)
Activity	Empty Activity

You may keep rest of the values as default and [create Android Application with Kotlin Support](#).

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical"
    tools:context="com.tutorialkart.spinnerexample.MainActivity">

    <TextView
        android:id="@+id/msg"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="25dp"
        android:padding="20dp"/>

    <Spinner
        android:id="@+id/spinner_sample"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

</LinearLayout>
```

MainActivity.kt

```

package com.tutorialkart.spinnerexample

import android.support.v7.app.AppCompatActivity
import android.os.Bundle
import kotlinx.android.synthetic.main.activity_main.*
import android.view.View
import android.widget.*

class MainActivity : AppCompatActivity(), AdapterView.OnItemClickListener {

    var languages = arrayOf("English", "French", "Spanish", "Hindi", "Russian", "Telugu", "Chi

    var spinner:Spinner? = null
    var textView_msg:TextView? = null

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        textView_msg = this.msg

        spinner = this.spinner_sample
        spinner!!.setOnItemSelectedListener(this)

        // Create an ArrayAdapter using a simple spinner layout and languages array
        val aa = ArrayAdapter(this, android.R.layout.simple_spinner_item, languages)
        // Set layout to use when the list of choices appear
        aa.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item)
        // Set Adapter to Spinner
        spinner!!.setAdapter(aa)

    }

    override fun onItemClick(arg0: AdapterView<*>, arg1: View, position: Int, id: Long) {
        textView_msg!!.text = "Selected : "+languages[position]
    }

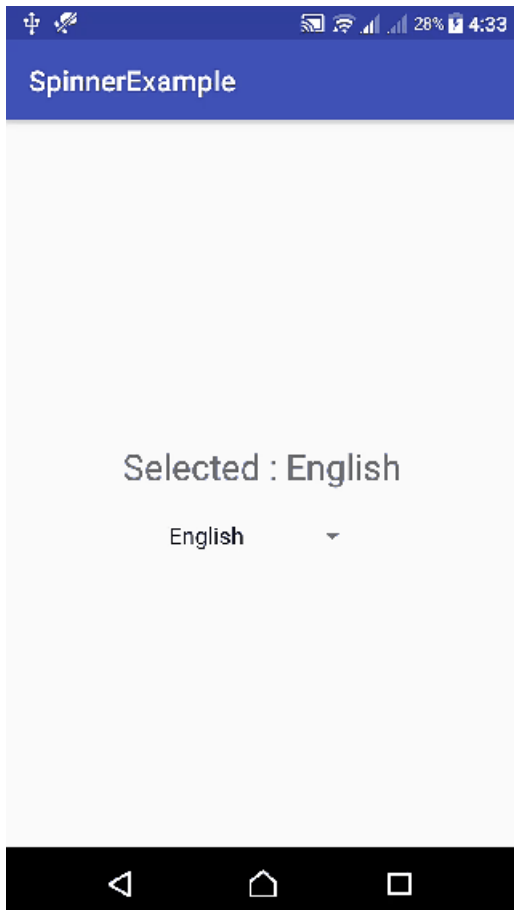
    override fun onNothingSelected(arg0: AdapterView<*>) {

    }

}

```

Output



Conclusion

In this [Android Tutorial : Android Spinner – Kotlin Example](#), we have learnt to use Spinner with an example Android Application.

Getting Started with Android

- [Kotlin Android Tutorial](#)
- [Create Android Application with Kotlin Support](#)
- [Walk Through Android Studio](#)
- [Convert Java Files to Kotlin Files](#)
- [Kotlin vs Java](#)
- [Use Java 8 in Android](#)
- [Add External Jar to Android Dependencies](#)

Android TextView

- [Android TextView](#)
- [Android TextView - Basic Example](#)
- [Android TextView - Create programmatically](#)
- [Android TextView - OnClickListener](#)
- [Android TextView - Justify Text](#)

‣ [Android TextView - Italic](#)

‣ [Android TextView - Bold](#)

Android Button

‣ [Android - New Button programmatically](#)

‣ [Android Button - OnClickListener](#)

‣ [Android Button - Disable All Caps](#)

‣ [Android Button - Custom Background](#)

‣ [Android Button - Change background programatically](#)

Android Toast

‣ [Android Toast - Example](#)

Android EditText

‣ [Android EditText - Create programmatically](#)

‣ [Android EditText - On Text Change - Listener](#)

‣ [Android TextInputLayout - Floating Label in EditText](#)

‣ [Android EditText - Keyboard with only Numbers](#)

‣ [Android EditText - Show/Hide Password](#)

Android ImageView

‣ [Android ImageView - OnClickListener](#)

Android Radio Buttons

‣ [Android RadioGroup - RadioButtons Create programmatically](#)

Android SeekBar

‣ [Android SeekBar - Example](#)

‣ [Android SeekBar Set Custom Range](#)

Android Intent

‣ [Android - Start Another Activity](#)

‣ [Android - Open URL in Browser Activity](#)

Android AlertDialog

‣ [Android AlertDialog - Example](#)

Android WebView

‣ [Android WebView - Example](#)

Android ProgressBar

‣ [Kotlin Android - Indeterminate ProgressBar](#)

Android Snackbar

- ‡ [Android Snackbar - Example](#)
- ‡ [Android Snackbar - Set Action](#)
- ‡ [Android Snackbar - Change Text Color, Background Color](#)

Android ListView

- ‡ [Android ListView Example](#)
- ‡ [Android Refresh ListView](#)

Android Device Parameters

- ‡ [Android Get Screen Width and Height Programmatically](#)

Android Canvas

- ‡ [Draw Rect / Oval to Canvas](#)
- ‡ [Android Draw Circle Border](#)
- ‡ [Android Draw SVG to Canvas](#)

Android Programming - Other

- ‡ [Android - Access View Programmatically using findViewById](#)
- ‡ [Android runOnUiThread](#)

Android Game Development

- ‡ [Android Game Development](#)
- ‡ [Detect Collisions between two Sprites \(Bitmaps\)](#)

Android Text To Speech

- ‡ [Android Text To Speech - Kotlin Example](#)

Fix Errors

- ‡ [Android - Minimum supported Gradle version](#)
- ‡ [Android - All support libraries must use the exact same version specification](#)

Example Applications

- ‡ [Android - Login Form](#)
- ‡ [Android - Color Picker](#)
- ‡ [Kotlin Android Game Development](#)

Kotlin - Java

- ‡ [Kotlin Tutorial](#)

Useful Resources

- ‡ [How to Learn Programming](#)