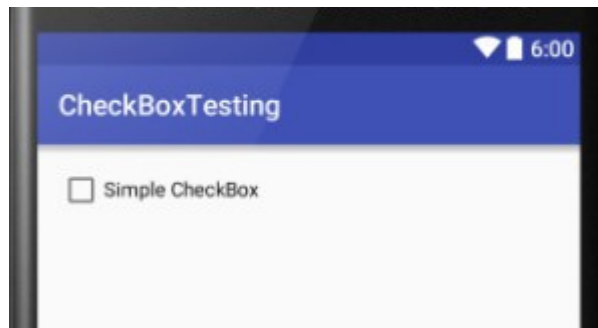


Android Checkbox

In this lesson, we will learn about how to use android checkbox with example. We will learn about different attributes that are used to customise this widget.



Getting Started

Android Checkbox can be described as below -

Android Checkbox is special type of button that has only 2 states i.e. either **checked** or **unchecked**.

Different Attributes of Android Checkbox Widget

Attributes of checkbox widget are inherited from Textview, View and Compound Button. Some of the popular attributes inherited from Textview are -

Sr.	XML Attributes	Description
1	android:backgroundTint	Sets tint to the background.
2	android:clickable	Sets true when you want to make View clickable. Otherwise, set false.
3	android:drawableBottom	Drawable to be drawn at bottom of the text.
4	android:drawableEnd	Drawable to be drawn to end of the text.
5	android:drawableLeft	Drawable to be drawn to left of the text.
6	android:drawablePadding	Padding of the drawable.

Attributes of Checkbox inherited from Compound Button are -

Sr.	XML Attributes	Description
1	android:button	Drawable to be used for button graphic
2	android:buttonTint	Sets tint to button graphic

- 3 android:buttonTintMode Blending mode used to apply the button graphic tint.

Attributes of Checkbox inherited from View are -

Sr.	XML Attributes	Description
1	android:id	It sets unique identifier for this view.
2	android:padding	Sets padding of this view.
3	android:onClick	Defines the operations to perform when this view is clicked
4	android:visibility	Sets the visibility (visible, gone etc.) of the Checkbox.
5	android:tooltipText	Defines text displayed in a small popup window on hover or long press.
6	android:background	Sets background to this view.
7	android:alpha	Sets alpha in view.

Example of Android Checkbox Widget

At first, we will create android application. Then, we will use checkbox widget in this application.

1. Creating New Project

Follow steps below to create new android project. Please ignore the steps if you have already created android application.

Step	Description
1.	Open Android Studio.
2.	Go to File => New => New Project . Write application name as Checkbox . Then, click next button.
3.	Select minimum SDK you need. However, we have selected 17 as minimum SDK. Then, click next button
4.	Then, select Empty Activity => click next => click finish .
5.	If you have followed above process correctly, you will get a newly created project successfully.

Use Checkbox in xml file

Open `res/layout/activity_main.xml` file. Then, add below code into it.

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

    <CheckBox
        android:id="@+id/checkBox"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:padding="10dp"
        android:text="Check me Please"/>

</LinearLayout>
```

Notice that we have defined Checkbox widget with id `checkBox` in xml file. Now, we will access this checkbox widget in java file. Then, We will show a toast message when checkbox is clicked.

Access Checkbox in java file

Open `src/main/java/com.yourpackage/MainActivity.java` file. Then, add below code into it.

```
package com.yourpackage
import android.os.Bundle
import android.widget.CheckBox
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
class Calc : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        val checkBox = findViewById<CheckBox>(R.id.checkBox)
        checkBox?.setOnCheckedChangeListener { buttonView, isChecked ->
            val msg = "You have " + (if (isChecked) "checked" else
                "unchecked") + " this Check it Checkbox."
            Toast.makeText(this, msg, Toast.LENGTH_SHORT).show()
        }
    }
}
```

Run You App