

Create RadioGroup and RadioButtons in Android Programmatically

Create a RadioGroup in Android

We know that we can create RadioGroup in layout file. But, we can also create a RadioGroup programmatically and then add this View to layout file.

In this tutorial, we will learn how to create a RadioGroup with RadioButtons programmatically in Android, and add this RadioGroup to a LinearLayout in layout file.

Quick Code – Create a RadioGroup

A quick snippet of code to create a new RadioGroup and RadioButtons in Kotlin Android programmatically

```
val rg = RadioGroup(this)
rg.orientation = RadioGroup.VERTICAL
val options = arrayOf("Option 1", "Option 2", "Option 3", "Option 4")
for (i in options.indices) {
    // create a radio button
    val rb = RadioButton(this)
    // set text for the radio button
    rb.text = options[i]
    // assign an automatically generated id to the radio button
    rb.id = View.generateViewId()
    // add radio button to the radio group
    rg.addView(rb)
}
```

Example 1 – Create a RadioGroup and RadioButtons

[Create Android Application with Kotlin Support](#) and replace activity_main.xml and MainActivity.kt with the following files.

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-
  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"
  tools:context="com.tutorialkart.myapplication.MainActivity">
  <LinearLayout
    android:id="@+id/ll_main_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical">

    </LinearLayout>

</android.support.constraint.ConstraintLayout>

```

MainActivity.kt

```

package com.tutorialkart.myapplication

import android.support.v7.app.AppCompatActivity
import android.os.Bundle
import android.view.View
import android.widget.LinearLayout
import android.widget.RadioButton
import android.widget.RadioGroup

class MainActivity : AppCompatActivity() {

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

        val ll_main = findViewById(R.id.ll_main_layout) as LinearLayout

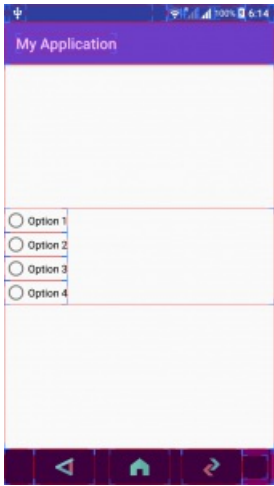
        val options = arrayOf("Option 1", "Option 2", "Option 3", "Option 4")

        // create a radio group
        val rg = RadioGroup(this)
        rg.orientation = RadioGroup.VERTICAL
        for (i in options.indices) {
            // create a radio button
            val rb = RadioButton(this)
            // set text for the radio button
            rb.text = options[i]
            // assign an automatically generated id to the radio button
            rb.id = View.generateViewId()
            // add radio button to the radio group
            rg.addView(rb)
        }
        // add radio group to the linear layout
        ll_main.addView(rg)
    }
}

```

Following is the Output with RadioGroup. The layout bounds are specified to know the positioning of

RadioGroup in the layout.



Create a new RadioGroup and RadioButtons in Kotlin Android programmatically

Conclusion

In this [Kotlin Android Tutorial](#), we have learnt how to create a RadioGroup programmatically in Android, and add this RadioGroup with RadioButtons to a LinearLayout in layout file.

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 programmatically](#)

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](#)