

SAMSUNG



# Kotlin

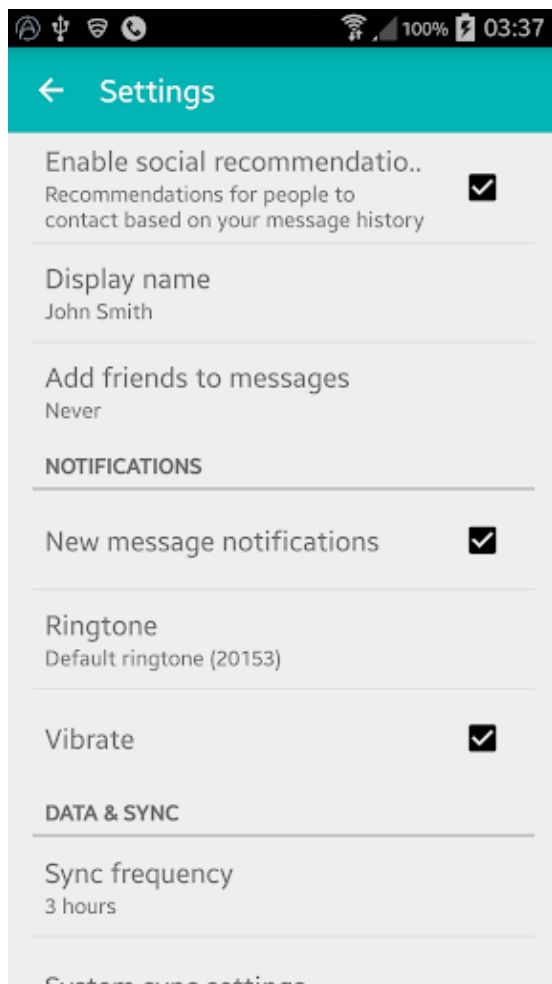
## Базовый Курс

5.3. Интерфейс настройки приложения



# Настройки приложения

SAMSUNG

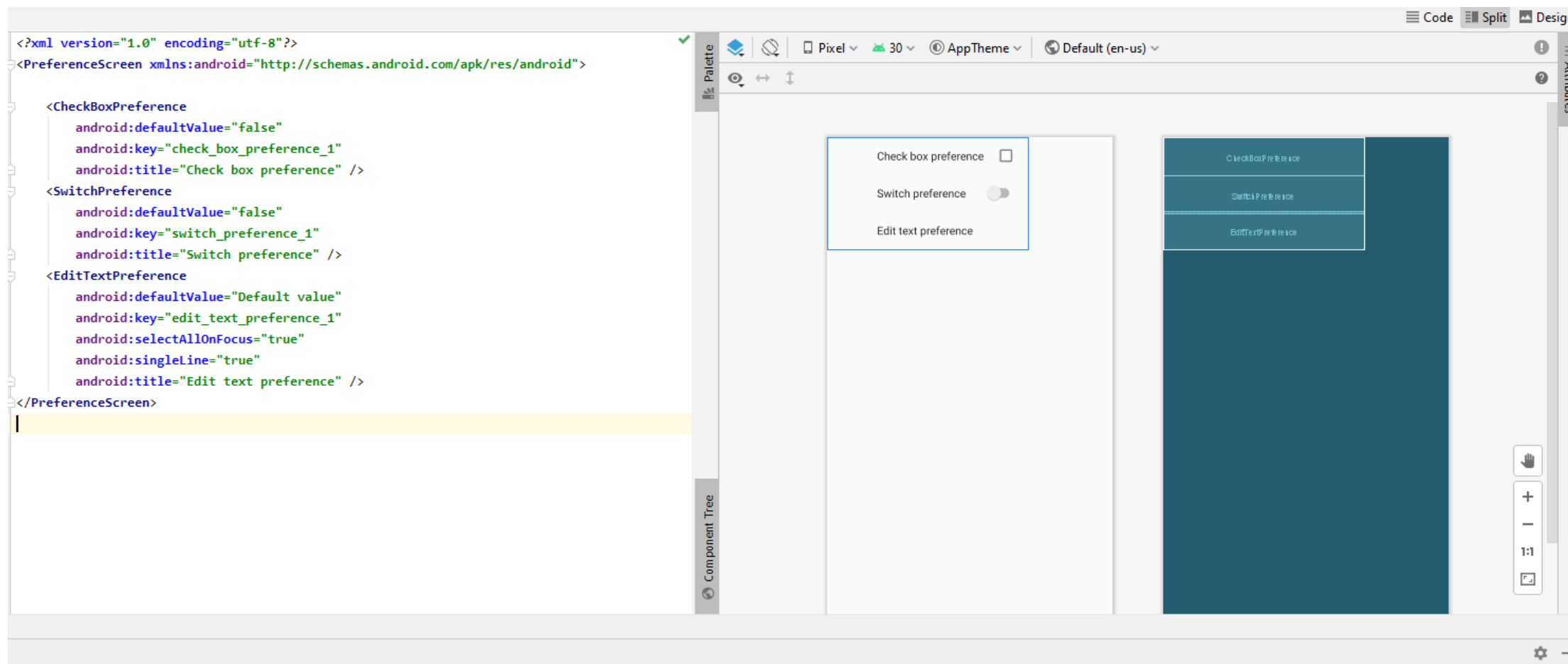


```
dependencies {  
    def preference_version = "1.1.1"  
    implementation "androidx.preference:preference-ktx:$preference_version"  
}
```





# Интерфейс экрана настроек



The screenshot displays the Android Studio IDE with the XML editor on the left and the Design view on the right. The XML code defines a `PreferenceScreen` containing three preferences: a `CheckBoxPreference`, a `SwitchPreference`, and an `EditTextPreference`.

```
<?xml version="1.0" encoding="utf-8"?>
<PreferenceScreen xmlns:android="http://schemas.android.com/apk/res/android">

    <CheckBoxPreference
        android:defaultValue="false"
        android:key="check_box_preference_1"
        android:title="Check box preference" />

    <SwitchPreference
        android:defaultValue="false"
        android:key="switch_preference_1"
        android:title="Switch preference" />

    <EditTextPreference
        android:defaultValue="Default value"
        android:key="edit_text_preference_1"
        android:selectAllOnFocus="true"
        android:singleLine="true"
        android:title="Edit text preference" />

</PreferenceScreen>
```

The Design view on the right shows a visual representation of the preferences screen. It features a dark blue background with three preference items listed vertically: "Check box preference" with a checkbox, "Switch preference" with a toggle switch, and "Edit text preference" with a text input field. The interface includes standard Android Studio toolbars and a component palette on the left.





# Интерфейс экрана настроек



## <Preference

```
android:key="preference_key"  
android:title="@string/preference_title"  
android:summary="@string/preference_summary"  
android:icon="@drawable/ic_launcher_background"/>
```

## <CheckBoxPreference

```
android:key="checkbox"  
android:title="@string/title_checkbox_preference"  
android:summary="@string/preference_summary"/>
```

## <SwitchPreferenceCompat

```
android:key="switch"  
android:title="@string/title_switch_preference"  
android:summary="@string/preference_summary"/>
```



My text preference  
My preference summary

My checkbox preference  
My preference summary



My switch preference  
My preference summary





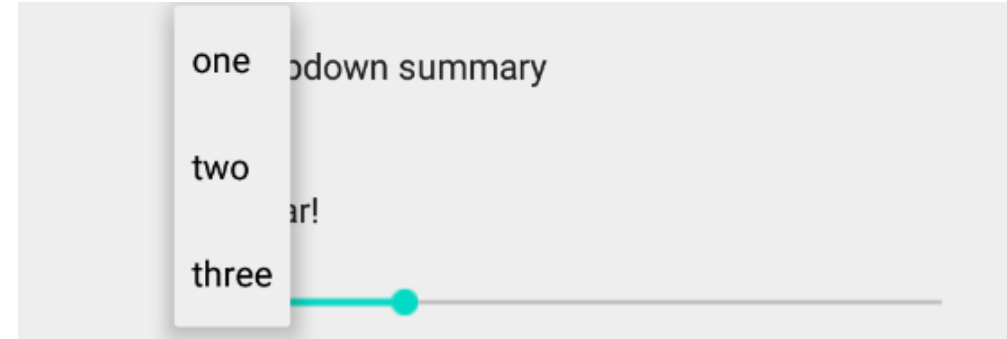
## Интерфейс экрана настроек

SAMSUNG



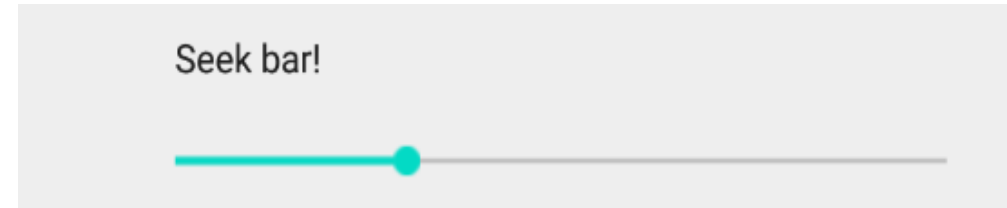
### <DropDownPreference

```
android:key="dropdown"  
android:title="@string/title_dropdown_preference"  
android:entries="@array/entries"  
app:useSimpleSummaryProvider="true"  
android:entryValues="@array/entry_values"/>
```



### <SeekBarPreference

```
android:key="seekbar"  
android:title="Seek bar!"  
android:max="10"  
android:defaultValue="5" />
```





## Интерфейс экрана настроек



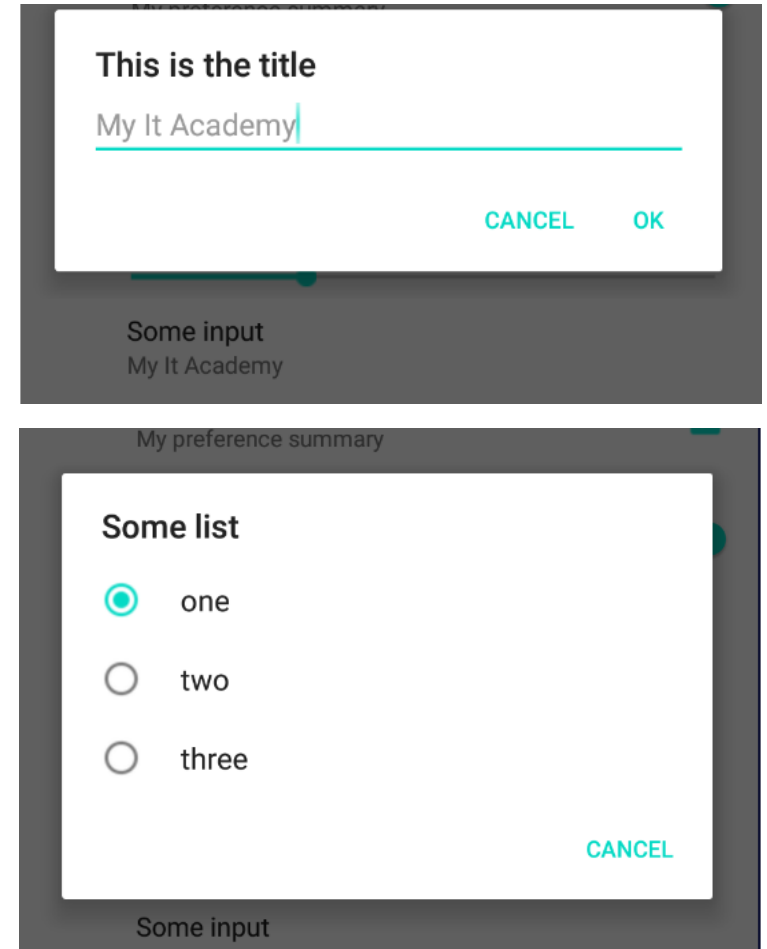
### <EditTextPreference

```
    android:key="edittext"  
    android:title="Some input"  
    app:useSimpleSummaryProvider="true"  
    android:dialogTitle="This is the title"/>
```

### <ListPreference

```
    android:key="list"  
    android:title="Some list"  
    app:useSimpleSummaryProvider="true"  
    android:entries="@array/entries"  
    android:entryValues="@array/entry_values" />
```

SAMSUNG





# Интерфейс экрана настроек

SAMSUNG



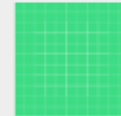
```
<PreferenceCategory
android:title="Text">
    <Preference
        android:key="preference_key"
        android:title="@string/preference_title"
        android:summary="@string/preference_summary" />

    <Preference
        android:key="preference_key"
        android:title="@string/preference_title"
        android:summary="@string/preference_summary"
        android:icon="@drawable/ic_launcher_background" />
</PreferenceCategory>
<PreferenceCategory
android:title="Switches">
    <CheckBoxPreference
        android:key="checkbox"
        android:title="@string/title_checkbox_preference"
        android:summary="@string/preference_summary"/>

    <SwitchPreferenceCompat
        android:key="switch"
        android:title="@string/title_switch_preference"
        android:summary="@string/preference_summary"/>
</PreferenceCategory>
```

## Text

My text preference  
My preference summary



My text preference  
My preference summary

## Switches

My checkbox preference  
My preference summary



My switch preference  
My preference summary





# Отображение настроек

SAMSUNG



```
class SettingsActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.settings_activity)
        supportFragmentManager
            .beginTransaction()
            .replace(R.id.settings, SettingsFragment())
            .commit()
        supportActionBar?.setDisplayHomeAsUpEnabled(true)
    }

    class SettingsFragment : PreferenceFragmentCompat() {
        override fun onCreatePreferences(savedInstanceState: Bundle?, rootKey: String?) {
            setPreferencesFromResource(R.xml.prefs, rootKey)
        }
    }
}
```

***New > Activity > Settings Activity.***

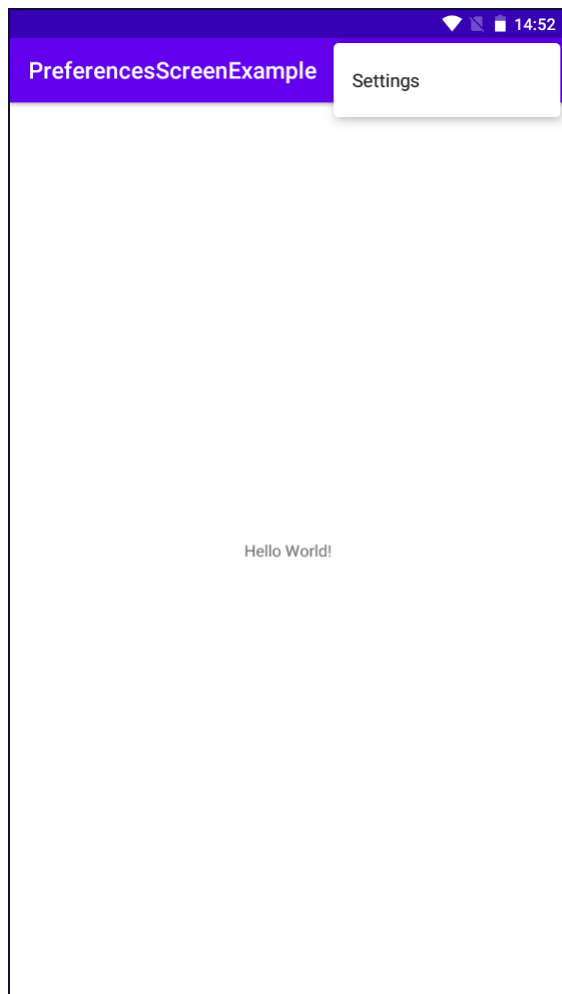






# Пример обработки изменения настроек

SAMSUNG



```
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }

    override fun onCreateOptionsMenu(menu: Menu): Boolean {
        val inflater = menuInflater
        inflater.inflate(R.menu.menu, menu)
        return super.onCreateOptionsMenu(menu)
    }

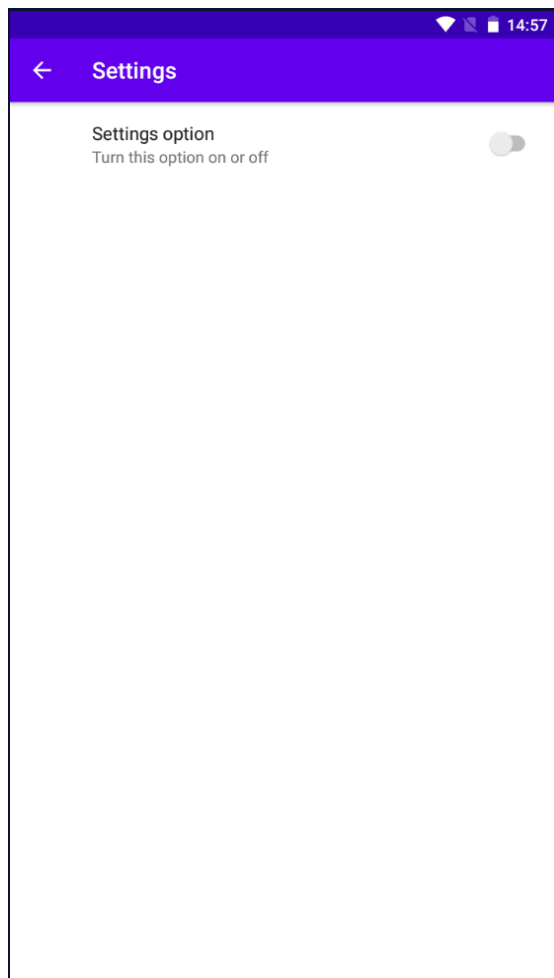
    override fun onOptionsItemSelected(item: MenuItem): Boolean {
        // Handle presses on the action bar menu items
        when (item.itemId) {
            R.id.action_settings -> {
                val intent = Intent(this, SettingsActivity::class.java)
                startActivity(intent)
                return true
            }
        }
        return super.onOptionsItemSelected(item)
    }
}
```





# Пример обработки изменения настроек

SAMSUNG



```
import android.os.Bundle
import android.preference.PreferenceFragment
import android.support.v7.app.AppCompatActivity

class SettingsActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.settings_activity)
        if (savedInstanceState == null) {
            supportFragmentManager
                .beginTransaction()
                .replace(R.id.settings, SettingsFragment())
                .commit()
        }
        supportActionBar?.setDisplayHomeAsUpEnabled(true)
    }

    class SettingsFragment : PreferenceFragmentCompat() {
        override fun onCreatePreferences(savedInstanceState: Bundle?, rootKey: String?) {
            setPreferencesFromResource(R.xml.root_preferences, rootKey)
        }
    }
}
```





# Пример обработки изменения настроек

SAMSUNG



```
class SettingsActivity : AppCompatActivity(), SharedPreferences.OnSharedPreferenceChangeListener {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.settings_activity)
        if (savedInstanceState == null) {
            supportFragmentManager
                .beginTransaction()
                .replace(R.id.settings, SettingsFragment())
                .commit()
        }
        supportActionBar?.setDisplayHomeAsUpEnabled(true)
    }

    class SettingsFragment : PreferenceFragmentCompat() {
        override fun onCreatePreferences(savedInstanceState: Bundle?, rootKey: String?) {
            setPreferencesFromResource(R.xml.root_preferences, rootKey)
        }
    }

    override fun onSharedPreferenceChanged(sharedPreferences: SharedPreferences?, key: String?) {
        when (key) {
            "example_switch" -> {
                val test = sharedPreferences!!.getBoolean("example_switch", false)
                Toast.makeText(this, test.toString(), Toast.LENGTH_SHORT).show()
            }
        }
    }
}
```





**SAMSUNG**



Спасибо

