

Android ScrollView (Vertical)

The **android.widget.ScrollView** class provides the functionality of scroll view. ScrollView is used to scroll the child elements of palette inside ScrollView. Android supports vertical scroll view as default scroll view. Vertical ScrollView scrolls elements vertically.

Android uses *HorizontalScrollView* for horizontal ScrollView.

Let's implement simple example of vertical ScrollView.

activity_main.xml

Now, drag ScrollView from palette to activity_main.xml file and place some palette element inside it.

File: activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout 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:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.test.scrollviews.MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:text="Vertical ScrollView example"
        android:id="@+id/textView"
        android:layout_gravity="center_horizontal"
        android:layout_centerHorizontal="true"
        android:layout_alignParentTop="true" />

    <ScrollView android:layout_marginTop="30dp"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:id="@+id/scrollView">

        <LinearLayout
            android:layout_width="fill_parent"
            android:layout_height="fill_parent"
            android:orientation="vertical" >

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 1" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 2" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 3" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 4" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 5" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 6" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 7" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 8" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 9" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 10" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 11" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 12" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 13" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 14" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 15" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 16" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 17" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 18" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 19" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Button 20" />

        </LinearLayout>

    </ScrollView>

</RelativeLayout>
```

Activity class

In activity class, we have not changed any code.

File: MainActivity.java

```
package com.example.test.scrollviews;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

Output

