Sources:

MS Bing Chat Copilot

In some cases, you may want to read the contents inside VBox, HBox, GridPane, or other container by scrolling up and down or from side to side because of the size limitation of your device’s screen.

**To solve this problem, you can write some code the adjust the size of your JavaFX’s containers, then put any container into ScrollPane control so that you can use a vertical or horizontal scroll bar to scroll up and down or left and down to see contents inside your VBox**

**Ex:**

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**import javafx.application.Application;**

**import javafx.scene.Scene;**

**import javafx.scene.layout.VBox;**

**import javafx.stage.Stage;**

**public class VBoxExample extends Application {**

**@Override**

**public void start(Stage stage) {**

**// Create a VBox**

**VBox vbox = new VBox();**

**// Adjust width and height**

**vbox.setPrefWidth(300); // Preferred width**

**vbox.setPrefHeight(200); // Preferred height**

**// Optional: Set minimum and maximum dimensions**

**vbox.setMinWidth(200);**

**vbox.setMinHeight(150);**

**vbox.setMaxWidth(400);**

**vbox.setMaxHeight(300);**

**// Add VBox to the scene**

**Scene scene = new Scene(vbox, 500, 400);**

**stage.setScene(scene);**

**stage.setTitle("VBox Dimension Example");**

**stage.show();**

**}**

**public static void main(String[] args) {**

**launch();**

**}**

**}**

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**Ex:**

**import javafx.application.Application;**

**import javafx.scene.Scene;**

**import javafx.scene.control.ScrollPane;**

**import javafx.scene.layout.VBox;**

**import javafx.scene.text.Text;**

**import javafx.stage.Stage;**

**public class VBoxWithScrollPaneExample extends Application {**

**@Override**

**public void start(Stage stage) {**

**// Create a VBox and add some content**

**VBox vBox = new VBox();**

**for (int i = 1; i <= 20; i++) {**

**vBox.getChildren().add(new Text("Item " + i));**

**}**

**// Wrap the VBox in a ScrollPane**

**ScrollPane scrollPane = new ScrollPane(vBox);**

**// Set preferred size for the ScrollPane**

**scrollPane.setPrefWidth(300);**

**scrollPane.setPrefHeight(200);**

**// Optional: Configure scroll behavior**

**scrollPane.setFitToWidth(true); // Ensures content fits the width of the ScrollPane**

**scrollPane.setVbarPolicy(ScrollPane.ScrollBarPolicy.ALWAYS); // Always show vertical scrollbar**

**// Create the scene and display it**

**Scene scene = new Scene(scrollPane, 400, 300);**

**stage.setScene(scene);**

**stage.setTitle("VBox with ScrollPane Example");**

**stage.show();**

**}**

**public static void main(String[] args) {**

**launch();**

**}**

**}**

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