Sources:

CISC190 Java Programming

A close-up of a sign

AI-generated content may be incorrect.

A text on a white background

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer code

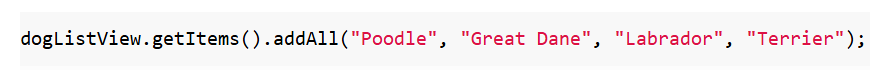
AI-generated content may be incorrect.

A screenshot of a computer code

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A close up of text

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A close up of a text

AI-generated content may be incorrect.

A black text on a white background

AI-generated content may be incorrect.

A computer code with text

AI-generated content may be incorrect.

In case you want to make a ListView appear on your app when you click a button and you’re thinking that you can use CSS for displaying it by using techniques like position:fixed, position:absolute, and so on, according to Bing Chat Copilot

JavaFX CSS does not support the position: fixed property as you might find in traditional web CSS. However, you can achieve similar effects using layout managers and controls available in JavaFX.

For example, you can use a Pane or AnchorPane to position nodes at fixed locations within the scene. Here's a simple example using AnchorPane:

import javafx.application.Application;

import javafx.scene.Scene;

import javafx.scene.control.Button;

import javafx.scene.layout.AnchorPane;

import javafx.stage.Stage;

public class FixedPositionExample extends Application {

@Override

public void start(Stage primaryStage) {

Button button = new Button("Fixed Position");

// Anchor the button at a fixed position

AnchorPane.setTopAnchor(button, 50.0);

AnchorPane.setLeftAnchor(button, 50.0);

AnchorPane anchorPane = new AnchorPane(button);

Scene scene = new Scene(anchorPane, 300, 200);

primaryStage.setScene(scene);

primaryStage.setTitle("Fixed Position Example");

primaryStage.show();

}

public static void main(String[] args) {

launch(args);

}

}

In this example, the button will always be positioned 50 pixels from the top and left edges of the AnchorPane, effectively mimicking a "fixed" position.

\*Another notice is that JavaFX CSS doesn't directly support the display: none property like web CSS does. However, you can achieve a similar effect by manipulating the visibility and manageability of nodes within your application. \*

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To make a node appear: .setVisible(true);

EX:

**package** application;

**import** javafx.application.Application;

**import** javafx.stage.Stage;

**import** javafx.scene.Scene;

**import** javafx.scene.control.Label;

**import** javafx.scene.control.Button;

**import** javafx.scene.control.TextField;

**import** javafx.scene.image.Image;

**import** javafx.scene.image.ImageView;

**import** javafx.scene.control.ListView;

**import** javafx.scene.layout.AnchorPane;

**import** javafx.scene.layout.HBox;

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

**import** javafx.scene.layout.GridPane;

**import** javafx.scene.layout.BorderPane;

**import** javafx.geometry.Insets;

**import** javafx.geometry.Pos;

**import** javafx.event.ActionEvent;

**import** javafx.event.EventHandler;

**public** **class** **Main** **extends** Application {

**public** **Label** label1;

**public** **Button** button1;

**public** **Button** button2;

**public** **Button** button3;

**public** **Button** button4;

**public** **Button** searchButton;

**public** **Button** button5;

**public** **Button** button6;

**public** **Button** button7;

**public** **Button** bottomButt1;

**public** **Button** bottomButt2;

**public** **Button** bottomButt3;

**public** **Label** aboutLabel;

**public** **TextField** textField1;

**public** **Label** searchLabel;

**public** **ListView**<String> listView1;

**public** **Image** image1;

**public** **ImageView** imageView1;

**public** **Image** image2;

**public** **ImageView** imageView2;

**public** **Image** image3;

**public** **ImageView** imageView3;

**public** **HBox** hbox;

**public** **VBox** CenterContent\_VBox;

**public** **HBox** CenterContent\_Content1\_HBox;

//I can use GridPane when needed

//public GridPane gridPane1;

**public** **HBox** bottomHbox;

**public** **VBox** LeftVBox;

**public** **BorderPane** borderPane;

**public** **Scene** scene;

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

***launch***(args);

}

**@Override**

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

primaryStage.**setTitle**(**"GUI Applicaiton"**);

label1 = **new** **Label**(**"Welcome"**);

button1 = **new** **Button**(**"🏠 HOME"**);

button1.**getStyleClass**().**add**(**"home\_button"**);

button2 = **new** **Button**(**"⏬ MENU"**);

button2.**getStyleClass**().**add**(**"menu\_button"**);

button3 = **new** **Button**(**"! ABOUT"**);

button3.**getStyleClass**().**add**(**"about\_button"**);

button4 = **new** **Button**(**"? HELP"**);

button4.**getStyleClass**().**add**(**"help\_button"**);

button4.**setOnAction**(**event**->{

listView1.**setVisible**(**true**);

});

aboutLabel = **new** **Label**(**"ABOUT: This is a Testing App"**);

aboutLabel.**getStyleClass**().**add**(**"about\_label"**);

aboutLabel.**setPadding**(**new** **Insets**(**10**));

textField1 = **new** **TextField**();

textField1.**getStyleClass**().**add**(**"textField\_search"**);

searchButton = **new** **Button**(**"🔎 SEARCH"**);

searchButton.**getStyleClass**().**add**(**"search\_button"**);

searchLabel = **new** **Label**(**""**);

searchLabel.**getStyleClass**().**add**(**"search\_label"**);

searchLabel.**setPadding**(**new** **Insets**(**10**));

button3.**setOnAction**(**new** **ButtonClickHandler**());

searchButton.**setOnAction**(**new** **ButtonClickHandler2**());

button5 = **new** **Button**(**"IMAGE"**);

button5.**getStyleClass**().**add**(**"image\_button"**);

button6 = **new** **Button**(**"STORAGE"**);

button6.**getStyleClass**().**add**(**"storage\_button"**);

button7 = **new** **Button**(**"DESIGN"**);

button7.**getStyleClass**().**add**(**"design\_button"**);

listView1 = **new** **ListView**<String>();

listView1.**getItems**().**addAll**(

**"1.Getting Started."**,

**"2.Issues with this app."**,

**"3.Contact."**,

**"4.Other issues."**);

listView1.**setPrefSize**(**150**,**150**);

listView1.**setId**(**"listView1"**);

listView1.**setVisible**(**false**);

image1 = **new** **Image**(**"file:wallpaper1.jpg"**);

imageView1 = **new** **ImageView**(image1);

imageView1.**setPreserveRatio**(**true**);

imageView1.**setFitWidth**(**300**);

imageView1.**setFitHeight**(**300**);

image2 = **new** **Image**(**"file:wallpaper2.jpg"**);

imageView2 = **new** **ImageView**(image2);

imageView2.**setPreserveRatio**(**true**);

imageView2.**setFitWidth**(**300**);

imageView2.**setFitHeight**(**300**);

image3 = **new** **Image**(**"file:wallpaper3.jpg"**);

imageView3 = **new** **ImageView**(image3);

imageView3.**setPreserveRatio**(**true**);

imageView3.**setFitWidth**(**300**);

imageView3.**setFitHeight**(**300**);

//I can use GridPane when needed

//gridPane1 = new GridPane();

//gridPane1.add(label1, 0, 0); gridPaneObject.add(control, column, row);

//gridPane1.add(label1, 1, 0);

//gridPane1.add(label1, 3, 0);

//gridPane1.add(label1, 0, 1);

//gridPane1.add(label1, 1, 1);

//gridPane1.add(label1, 3, 1);

//gridPane1.setHgap(10);

//gridPane1.setVgap(10);

//gridPane1.setGridLinesVisible(true);

bottomButt1 = **new** **Button**(**"Privacy Policy"**);

bottomButt1.**getStyleClass**().**add**(**"privary\_policy\_button"**);

//bottomButt1.setOnAction(event->{...doing something});

bottomButt2 = **new** **Button**(**"Copyright"**);

bottomButt2.**getStyleClass**().**add**(**"copyright\_button"**);

bottomButt3 = **new** **Button**(**"Terms of Use"**);

bottomButt3.**getStyleClass**().**add**(**"terms\_of\_use\_button"**);

hbox = **new** **HBox**(**10**, button1, button2, button3, button4, textField1, searchButton);

hbox.**getStyleClass**().**add**(**"top\_nav\_bar"**);

hbox.**setPadding**(**new** **Insets**(**10**));

hbox.**setAlignment**(Pos.**CENTER**);

CenterContent\_Content1\_HBox= **new** **HBox**(**10**,imageView1, imageView2, imageView3);

CenterContent\_Content1\_HBox.**setPadding**(**new** **Insets**(**20**));

CenterContent\_VBox = **new** **VBox**(**10**,CenterContent\_Content1\_HBox,listView1);

LeftVBox = **new** **VBox**(**10**, button5, button6, button7);

LeftVBox.**getStyleClass**().**add**(**"left\_nav\_bar"**);

LeftVBox.**setPadding**(**new** **Insets**(**10**));

bottomHbox = **new** **HBox**(**10**, bottomButt1, bottomButt2, bottomButt3);

bottomHbox.**getStyleClass**().**add**(**"bottom\_nav\_bar"**);

bottomHbox.**setPadding**(**new** **Insets**(**10**));

borderPane = **new** **BorderPane**();

borderPane.**setTop**(hbox);

borderPane.**setLeft**(LeftVBox);

borderPane.**setCenter**(CenterContent\_VBox);

borderPane.**setBottom**(bottomHbox);

scene = **new** **Scene**(borderPane);

scene.**getStylesheets**().**add**(**"file:style1.css"**);

primaryStage.**setScene**(scene);

primaryStage.**show**();

}

**class** **ButtonClickHandler** **implements** EventHandler<ActionEvent>{

**@Override**

**public** **void** **handle**(**ActionEvent** event) {

hbox.**getChildren**().**add**(aboutLabel);

}

}

**class** **ButtonClickHandler2** **implements** EventHandler<ActionEvent>{

**@Override**

**public** **void** **handle**(**ActionEvent** event) {

**String** **userInput** = textField1.**getText**();

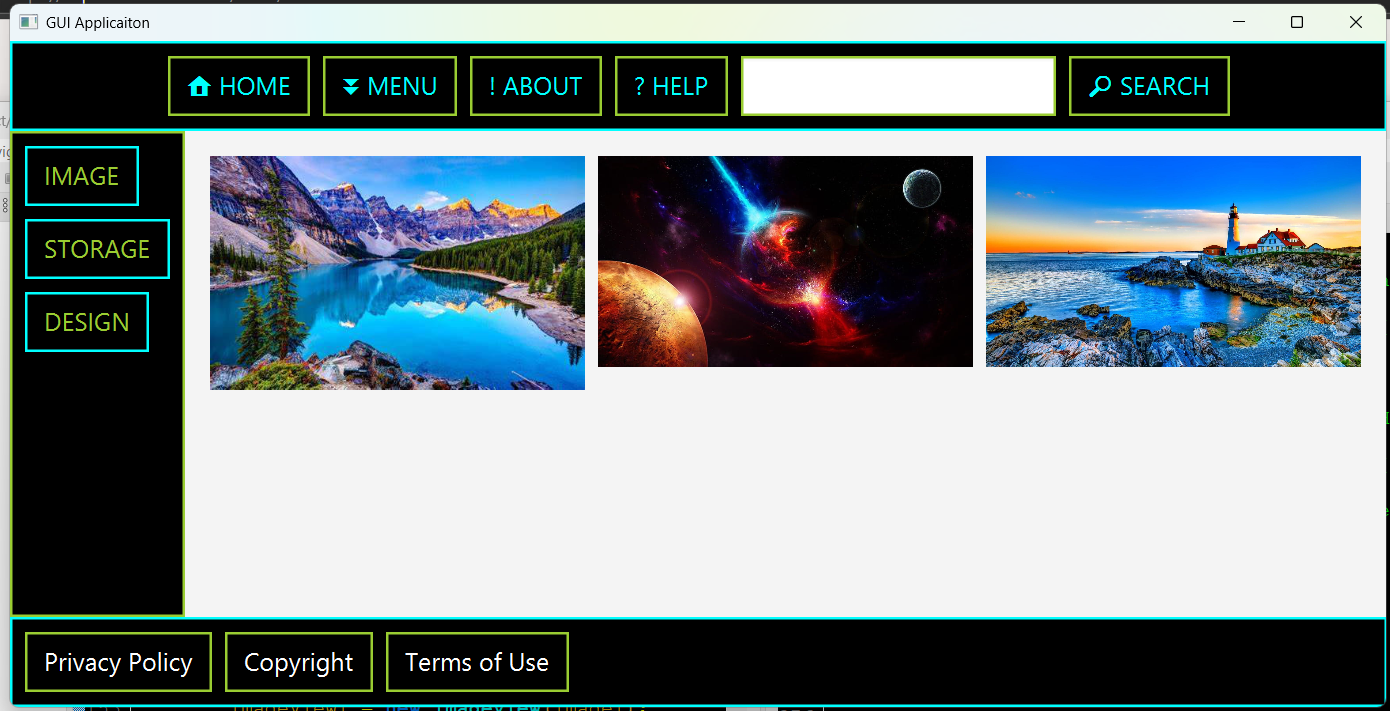
searchLabel.**setText**(**"Search Result: "**+userInput);

hbox.**getChildren**().**add**(searchLabel);

}

}

}



If you click HELP button =>

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Ex2:

**package** application;

**import** javafx.application.Application;

**import** javafx.stage.Stage;

**import** javafx.scene.Scene;

**import** javafx.scene.control.Label;

**import** javafx.scene.control.Button;

**import** javafx.scene.control.TextField;

**import** javafx.scene.image.Image;

**import** javafx.scene.image.ImageView;

**import** javafx.scene.control.ListView;

**import** javafx.scene.layout.HBox;

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

**import** javafx.scene.layout.GridPane;

**import** javafx.scene.layout.BorderPane;

**import** javafx.scene.layout.StackPane;

**import** javafx.scene.layout.AnchorPane;

**import** javafx.geometry.Insets;

**import** javafx.geometry.Pos;

**import** javafx.event.ActionEvent;

**import** javafx.event.EventHandler;

**public** **class** **Main** **extends** Application {

**public** **Label** label1;

**public** **Button** button1;

**public** **Button** button2;

**public** **Button** button3;

**public** **Button** button4;

**public** **Button** searchButton;

**public** **Button** button5;

**public** **Button** button6;

**public** **Button** button7;

**public** **Button** bottomButt1;

**public** **Button** bottomButt2;

**public** **Button** bottomButt3;

**public** **Label** aboutLabel;

**public** **TextField** textField1;

**public** **Label** searchLabel;

**public** **ListView**<String> listView1;

**public** **Image** image1;

**public** **ImageView** imageView1;

**public** **Image** image2;

**public** **ImageView** imageView2;

**public** **Image** image3;

**public** **ImageView** imageView3;

**public** **HBox** hbox;

**public** **VBox** CenterContent\_VBox;

**public** **HBox** CenterContent\_Content1\_HBox;

**public** **StackPane** CenterContent\_Content2\_StackPane;

**public** **AnchorPane** CenterContent\_Content2\_StackPane\_AnchorPane1;

//I can use GridPane when needed

//public GridPane gridPane1;

**public** **HBox** bottomHbox;

**public** **VBox** LeftVBox;

**public** **BorderPane** borderPane;

**public** **Scene** scene;

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

***launch***(args);

}

**@Override**

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

primaryStage.**setTitle**(**"GUI Applicaiton"**);

label1 = **new** **Label**(**"Welcome"**);

button1 = **new** **Button**(**"🏠 HOME"**);

button1.**getStyleClass**().**add**(**"home\_button"**);

button2 = **new** **Button**(**"⏬ MENU"**);

button2.**getStyleClass**().**add**(**"menu\_button"**);

button3 = **new** **Button**(**"! ABOUT"**);

button3.**getStyleClass**().**add**(**"about\_button"**);

button4 = **new** **Button**(**"? HELP"**);

button4.**getStyleClass**().**add**(**"help\_button"**);

button4.**setOnAction**(**event**->{

CenterContent\_Content2\_StackPane\_AnchorPane1.**setVisible**(**true**);

aboutLabel.**setVisible**(**false**);

CenterContent\_Content2\_StackPane\_AnchorPane1.**toFront**();

});

textField1 = **new** **TextField**();

textField1.**getStyleClass**().**add**(**"textField\_search"**);

searchButton = **new** **Button**(**"🔎 SEARCH"**);

searchButton.**getStyleClass**().**add**(**"search\_button"**);

searchLabel = **new** **Label**(**""**);

searchLabel.**getStyleClass**().**add**(**"search\_label"**);

searchLabel.**setPadding**(**new** **Insets**(**10**));

button3.**setOnAction**(**new** **ButtonAboutClickHandler**());

searchButton.**setOnAction**(**new** **ButtonSearchClickHandler**());

button5 = **new** **Button**(**"IMAGE"**);

button5.**getStyleClass**().**add**(**"image\_button"**);

button6 = **new** **Button**(**"STORAGE"**);

button6.**getStyleClass**().**add**(**"storage\_button"**);

button7 = **new** **Button**(**"DESIGN"**);

button7.**getStyleClass**().**add**(**"design\_button"**);

image1 = **new** **Image**(**"file:wallpaper1.jpg"**);

imageView1 = **new** **ImageView**(image1);

imageView1.**setPreserveRatio**(**true**);

imageView1.**setFitWidth**(**300**);

imageView1.**setFitHeight**(**300**);

image2 = **new** **Image**(**"file:wallpaper2.jpg"**);

imageView2 = **new** **ImageView**(image2);

imageView2.**setPreserveRatio**(**true**);

imageView2.**setFitWidth**(**300**);

imageView2.**setFitHeight**(**300**);

image3 = **new** **Image**(**"file:wallpaper3.jpg"**);

imageView3 = **new** **ImageView**(image3);

imageView3.**setPreserveRatio**(**true**);

imageView3.**setFitWidth**(**300**);

imageView3.**setFitHeight**(**300**);

//I can use GridPane when needed

//gridPane1 = new GridPane();

//gridPane1.add(label1, 0, 0); gridPaneObject.add(control, column, row);

//gridPane1.add(label1, 1, 0);

//gridPane1.add(label1, 3, 0);

//gridPane1.add(label1, 0, 1);

//gridPane1.add(label1, 1, 1);

//gridPane1.add(label1, 3, 1);

//gridPane1.setHgap(10);

//gridPane1.setVgap(10);

//gridPane1.setGridLinesVisible(true);

listView1 = **new** **ListView**<String>();

listView1.**getItems**().**addAll**(

**"1.Getting Started."**,

**"2.Issues with this app."**,

**"3.Contact."**,

**"4.Other issues."**);

listView1.**setPrefSize**(**150**,**150**);

listView1.**setId**(**"listView1"**);

**AnchorPane**.***setTopAnchor***(listView1, 50.0);

**AnchorPane**.***setLeftAnchor***(listView1, 350.0);

CenterContent\_Content2\_StackPane\_AnchorPane1 =

**new** **AnchorPane**(listView1);

CenterContent\_Content2\_StackPane\_AnchorPane1.**setVisible**(**false**);

aboutLabel = **new** **Label**(**"ABOUT: This is a Testing App"**);

aboutLabel.**getStyleClass**().**add**(**"about\_label"**);

aboutLabel.**setPadding**(**new** **Insets**(**10**));

aboutLabel.**setVisible**(**false**);

CenterContent\_Content2\_StackPane = **new** **StackPane**(CenterContent\_Content2\_StackPane\_AnchorPane1, aboutLabel);

CenterContent\_Content2\_StackPane.**setAlignment**(Pos.**CENTER**);

bottomButt1 = **new** **Button**(**"Privacy Policy"**);

bottomButt1.**getStyleClass**().**add**(**"privary\_policy\_button"**);

//bottomButt1.setOnAction(event->{...doing something});

bottomButt2 = **new** **Button**(**"Copyright"**);

bottomButt2.**getStyleClass**().**add**(**"copyright\_button"**);

bottomButt3 = **new** **Button**(**"Terms of Use"**);

bottomButt3.**getStyleClass**().**add**(**"terms\_of\_use\_button"**);

hbox = **new** **HBox**(**10**, button1, button2, button3, button4, textField1, searchButton);

hbox.**getStyleClass**().**add**(**"top\_nav\_bar"**);

hbox.**setPadding**(**new** **Insets**(**10**));

//hbox.setAlignment(Pos.CENTER);

CenterContent\_Content1\_HBox= **new** **HBox**(**10**,imageView1, imageView2, imageView3);

CenterContent\_Content1\_HBox.**setPadding**(**new** **Insets**(**20**));

CenterContent\_VBox = **new** **VBox**(**10**,CenterContent\_Content1\_HBox,CenterContent\_Content2\_StackPane);

LeftVBox = **new** **VBox**(**10**, button5, button6, button7);

LeftVBox.**getStyleClass**().**add**(**"left\_nav\_bar"**);

LeftVBox.**setPadding**(**new** **Insets**(**10**));

bottomHbox = **new** **HBox**(**10**, bottomButt1, bottomButt2, bottomButt3);

bottomHbox.**getStyleClass**().**add**(**"bottom\_nav\_bar"**);

bottomHbox.**setPadding**(**new** **Insets**(**10**));

borderPane = **new** **BorderPane**();

borderPane.**setTop**(hbox);

borderPane.**setLeft**(LeftVBox);

borderPane.**setCenter**(CenterContent\_VBox);

borderPane.**setBottom**(bottomHbox);

scene = **new** **Scene**(borderPane);

scene.**getStylesheets**().**add**(**"file:style1.css"**);

primaryStage.**setScene**(scene);

primaryStage.**show**();

}

**class** **ButtonAboutClickHandler** **implements** EventHandler<ActionEvent>{

**@Override**

**public** **void** **handle**(**ActionEvent** event) {

aboutLabel.**setVisible**(**true**);

CenterContent\_Content2\_StackPane\_AnchorPane1.**setVisible**(**false**);

aboutLabel.**toFront**();

}

}

**class** **ButtonSearchClickHandler** **implements** EventHandler<ActionEvent>{

**@Override**

**public** **void** **handle**(**ActionEvent** event) {

**String** **userInput** = textField1.**getText**();

searchLabel.**setText**(**"Search Result: "**+userInput);

hbox.**getChildren**().**add**(searchLabel);

}

}

}

Syntax in style1.css

.top\_nav\_bar {

-fx-background-color:black;

-fx-border-style: solid;

-fx-border-width: 2px;

-fx-border-color: aqua;

}

.label {

-fx-background-color: black;

-fx-text-fill: white;

-fx-font-size: 20px;

-fx-border-style: solid;

-fx-border-width: 2px;

-fx-border-color: yellowgreen;

}

.home\_button, .menu\_button, .about\_button, .help\_button, .search\_button{

-fx-background-color: black;

-fx-text-fill: aqua;

-fx-font-size: 20px;

-fx-border-style: solid;

-fx-border-width: 2px;

-fx-border-color: yellowgreen;

}

.home\_button:hover, .menu\_button:hover,

.about\_button:hover, .help\_button:hover, .search\_button:hover{

-fx-background-color: aqua;

-fx-text-fill: white;

}

.textField\_search{

-fx-font-size: 20px;

-fx-border-style: solid;

-fx-border-width: 2px;

-fx-border-color: yellowgreen;

}

.about\_label, .search\_label {

-fx-background-color: black;

-fx-text-fill: white;

-fx-font-size: 20px;

-fx-border-style: solid;

-fx-border-width: 2px;

-fx-border-color: yellowgreen;

}

.left\_nav\_bar {

-fx-background-color:black;

-fx-border-style: solid;

-fx-border-width: 2px;

-fx-border-color: yellowgreen;

}

[id="listView1"]{

-fx-position:fixed;

-fx-top:10;

-fx-left:50;

}

.image\_button, .storage\_button, .design\_button{

-fx-background-color: black;

-fx-text-fill: yellowgreen;

-fx-font-size: 20px;

-fx-border-style: solid;

-fx-border-width: 2px;

-fx-border-color: aqua;

}

.image\_button:hover, .storage\_button:hover, .design\_button:hover{

-fx-background-color: aqua;

-fx-text-fill: white;

}

.bottom\_nav\_bar {

-fx-background-color:black;

-fx-border-style: solid;

-fx-border-width: 2px;

-fx-border-color: aqua;

}

.privary\_policy\_button, .copyright\_button, .terms\_of\_use\_button{

-fx-background-color: black;

-fx-text-fill: white;

-fx-font-size: 20px;

-fx-border-style: solid;

-fx-border-width: 2px;

-fx-border-color: yellowgreen;

}

.privary\_policy\_button:hover, .copyright\_button:hover, .terms\_of\_use\_button:hover{

-fx-background-color: aqua;

-fx-text-fill: white;

}

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