>Getting Started with JavaFX

https://openjfx.io/openjfx-docs/



>Why JavaFX?

<^> Legacy Systems

<^> Intro to Visual Frameworks

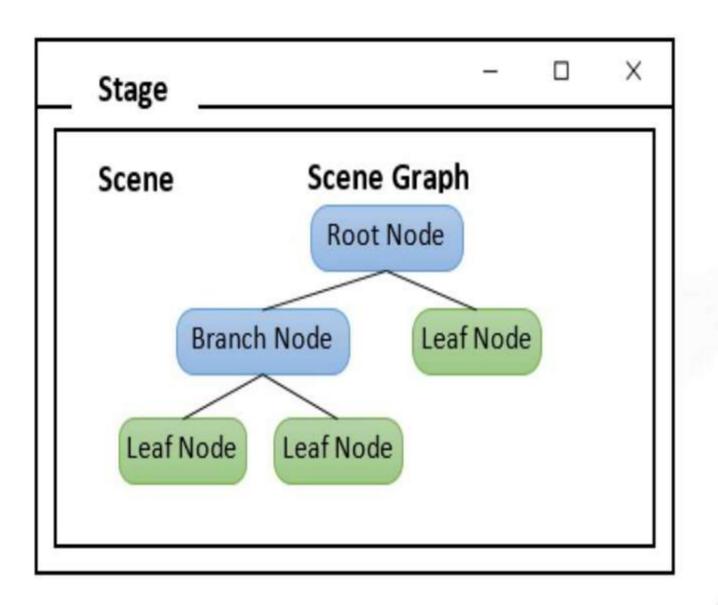


>Key features

- > Rich UI Controls
- > CSS Styling
- > Animations & Transitions
- > Web Integration
- > Touch & Gestures



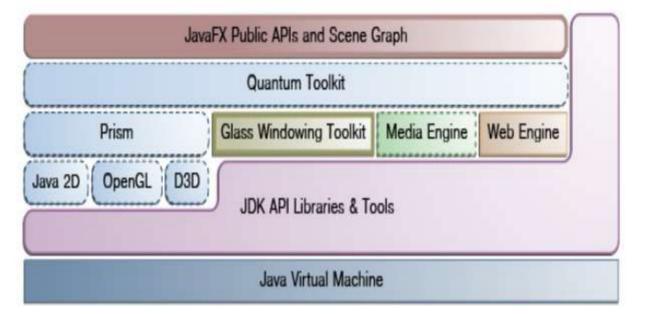
>Architecture





>APIs

- > javafx.animation
- > javafx.application
- > javafx.css
- > javafx.event
- > javafx.geometry
- > javafx.stage
- > javafx.scene





>Labels

```
// Create a Label object
Label label = new Label("Label");
// Set the font size and style
label.setFont(Font.font("Arial", FontWeight.BOLD, 32));
// Creating the Scene Graph
VBox root = new VBox();
// Adding the Button to the Scene
root.getChildren().addAll(label);
```

Label



>Buttons

```
Button button = new Button("Click me");
button.setVisible(false);
button.setLayoutX(500);
button.setLayoutY(720);
button.setFocusTraversable(false);
```

Click me



>Checkboxes

```
CheckBox checkBox = new CheckBox("Check me!");
checkBox.setVisible(false);
checkBox.setLayoutX(500);
checkBox.setLayoutY(720);
checkBox.setFocusTraversable(false);
```

Check me!



>Combo Boxes

```
ComboBox<String> comboBox = new ComboBox<>();
comboBox.setItems(FXCollections.observableArrayList(
    "Option 1",
    "Option 2",
    "Option 3",
    "Option 4"
));
comboBox.setVisible(false);
comboBox.setLayoutX(500);
comboBox.setLayoutY(720);
comboBox.setFocusTraversable(false);
```



>Text Fields

```
TextField nameField = new TextField();
nameField.setVisible(false);
nameField.setLayoutX(500);
nameField.setLayoutY(720);
```

Submit



>Password Fields

```
PasswordField passwordField = new PasswordField();
passwordField.setVisible(false);
passwordField.setLayoutX(500);
passwordField.setLayoutY(720);
```

Submit



>Scroll Bar

```
ScrollBar scrollbar = new ScrollBar();
scrollbar.setVisible(false);
scrollbar.setOrientation(Orientation.VERTICAL);
scrollbar.setLayoutX(500);
scrollbar.setLayoutY(720);
scrollbar.setFocusTraversable(false);
```



>Scroll Pane

```
// Create a VBox with some content
VBox content = new VBox();
for (int i = 1; i <= 20; i++) {
    content.getChildren().add(new javafx.scene.control.Label("Label " + i));
}

// Create a ScrollPane and set its content
ScrollPane scrollPane = new ScrollPane();
scrollPane.setContent(content);
scrollPane.setPrefSize(200, 200);
scrollPane.setVisible(false);
scrollPane.setLayoutX(500);
scrollPane.setLayoutY(620);
scrollPane.setFocusTraversable(false);</pre>
```

```
Label 1
Label 2
Label 3
Label 4
Label 5
Label 6
```



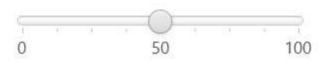
>Separators

```
Slider slider = new Slider(0,100,50);
slider.setVisible(false);
slider.setLayoutX(500);
slider.setLayoutY(720);
slider.setMajorTickUnit(50);
slider.setShowTickLabels(true);
slider.setShowTickMarks(true);
slider.setFocusTraversable(false);
```



>Sliders

```
Separator separator = new Separator();
separator.setVisible(false);
separator.setOrientation(Orientation.HORIZONTAL);
separator.setLayoutX(500);
separator.setLayoutY(720);
separator.setPrefWidth(1000);
separator.setStyle("-fx-border-color:#F40306; -fx-border-width:4");
```



The End



> References

> Alot of References

- > https://docs.oracle.com/javafx/2/architecture/jfxpub-architecture.htm
- > https://www.tutorialspoint.com/javafx/javafx_application.htm
- > https://docs.oracle.com/javafx/2/css_tutorial/jfxpub-css_tutorial.htm
- > https://www.youtube.com/watch?v=MqLhU1UrXro
- > https://www.youtube.com/watch?v=UaKQHy- WMQ
- > http://docs.oracle.com/javase/8/javase-clienttechnologies.htm
- > https://www.tutorialspoint.com/javafx/
- > http://www.javafxtutorials.com/

