

**INSTITUTO FEDERAL  
ESPÍRITO SANTO**  
Campus Cachoeiro de Itapemirim

# **Elementos de Interface Gráfica: JavaFX**

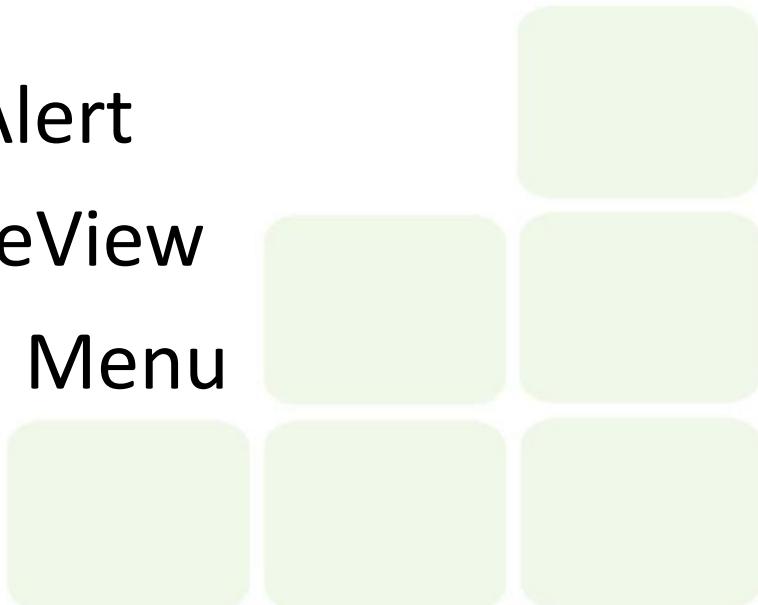
**Programação Orientada a Objetos II**

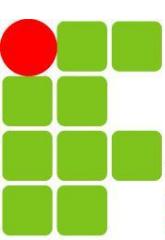
**Rafael Vargas Mesquita**

<http://www.ci.ifes.edu.br>  
<ftp://ftp.ci.ifes.edu.br/informatica/mesquita/>

# Roteiro

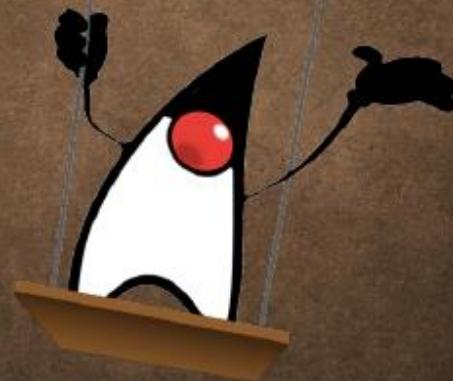
- Introdução sobre Interface Gráfica Java
  - AWT, Swing, JavaFX
  - Implantação de Projeto
- JavaFX
  - Label, Button, TextField, Alert
  - ComboBox, ListView, TableView
  - BorderPane, AnchorPane, Menu

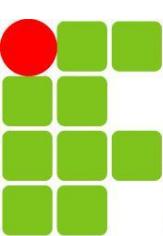




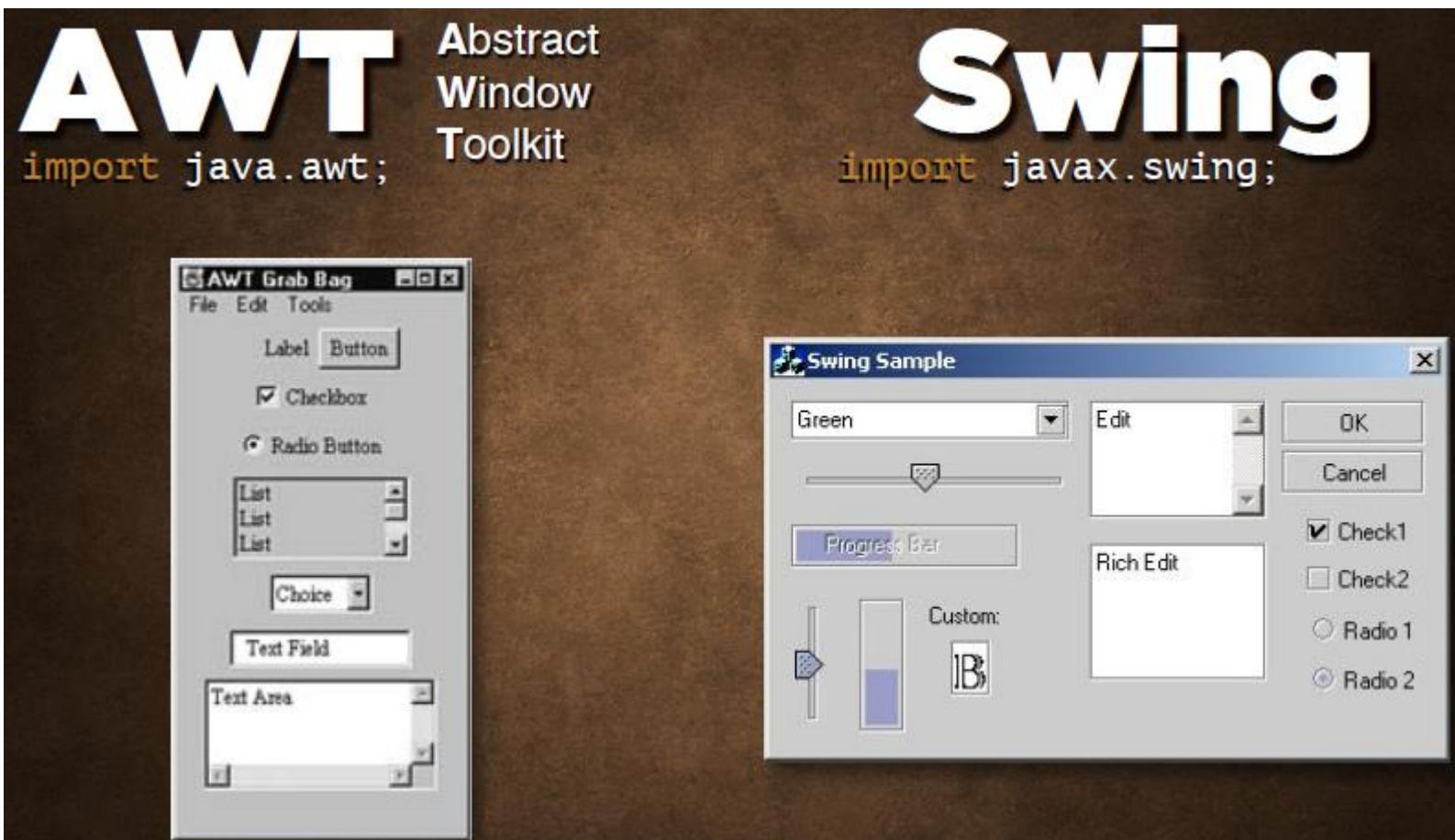
# Swing

# Biblioteca Swing

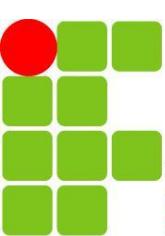




# AWT x Swing



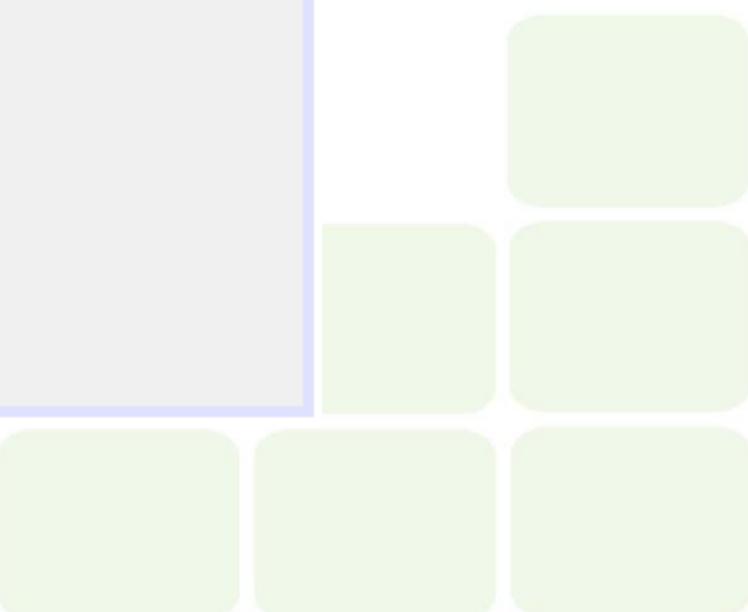
Exemplo de telas AWT e Swing no Windows

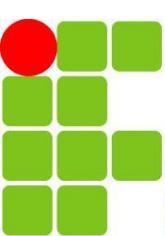


# Swing: Exemplo de Código

Vai aparecer uma mensagem

Clique em mim





# Swing: Exemplo de Código

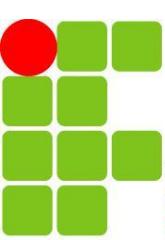
```
public class TelaSwing extends javax.swing.JFrame {  
    private javax.swing.JButton btnClick;  
    private javax.swing.JLabel lblMensagem;  
    private void btnClickActionPerformed(...) {  
        lblMensagem.setText("Olá, Mundo!");  
    }  
}
```

Encapsulamento

Herança

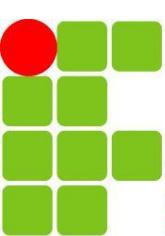
Evento





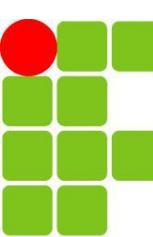
# Plataforma JavaFX





# JavaFX

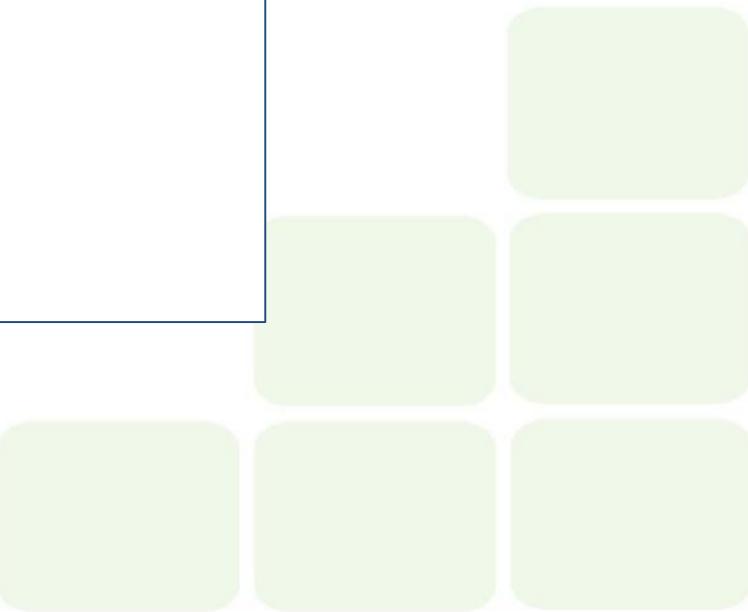


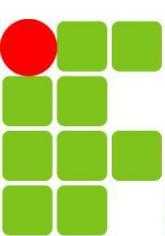


# JavaFX: Exemplo de Código

Vai aparecer uma mensagem

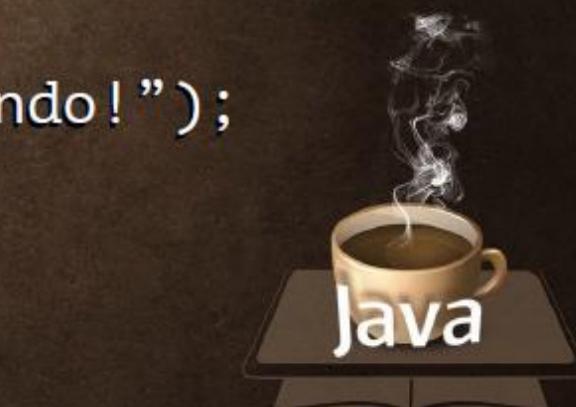
Clique em mim

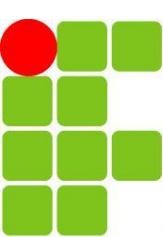




# JavaFX: Exemplo de Código

```
import javafx.fxml.FXML;  
  
public class FXMLDocumentController  
    implements Initializable {  
  
    @FXML  
    private Button btnClick;  
    private Label lblMensagem;  
  
    @FXML  
    private void clicouBotao(...) {  
        lblMensagem.setText("Olá, Mundo!");  
    }  
}
```





# Swing x JavaFX

```
public class TelaSwing extends javax.swing.JFrame {  
    private javax.swing.JButton btnClick;  
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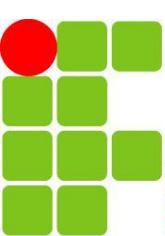
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    private void clicouBotao(...) {  
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    }  
}
```

Swing



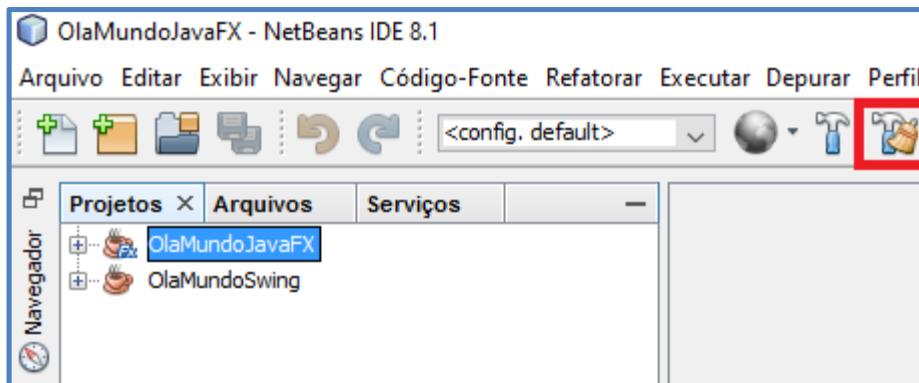
JavaFX  
FXML



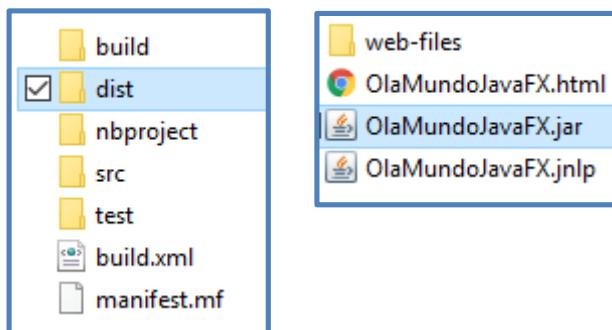


# Implantação

- Distribuição da aplicação Java: jar



Escolhendo opção ‘Limpar e construir’ da IDE NetBeans



Localização do arquivo .jar da aplicação

# Referências Bibliográficas

Curso em Vídeo: Curso de Java

<http://www.cursoemvideo.com/lesson/swing-javafx/>



Oracle Java Documentation: JavaFX - Working with JavaFX UI Components

[http://docs.oracle.com/javase/8/javafx/user-interface-tutorial/ui\\_controls.htm#JFXUI336](http://docs.oracle.com/javase/8/javafx/user-interface-tutorial/ui_controls.htm#JFXUI336)