

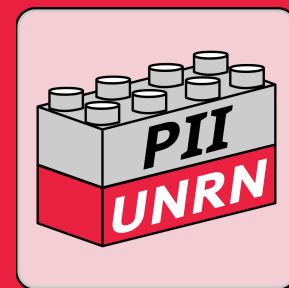
# GUI

## UNRN

Universidad Nacional  
de Río Negro

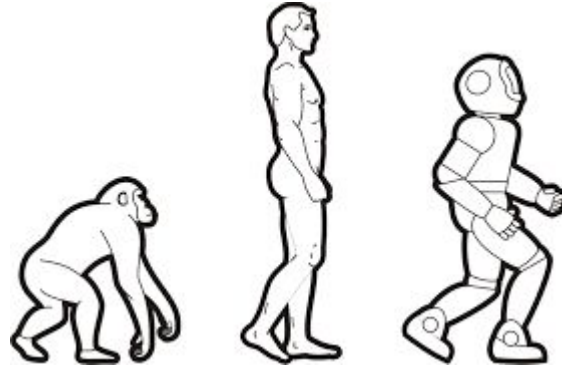
## XVII

## 2024



# ¿Qué es GUI?

# Evolución



# GUI

# Usos



# A tener en cuenta



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# GUI en Java

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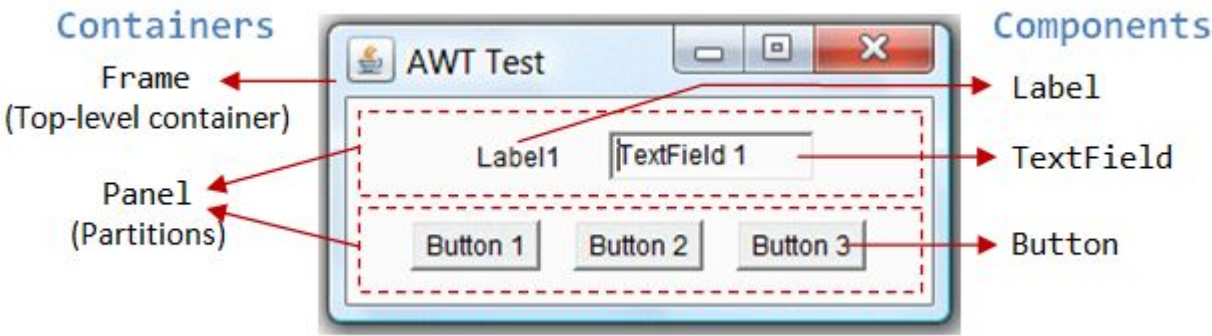
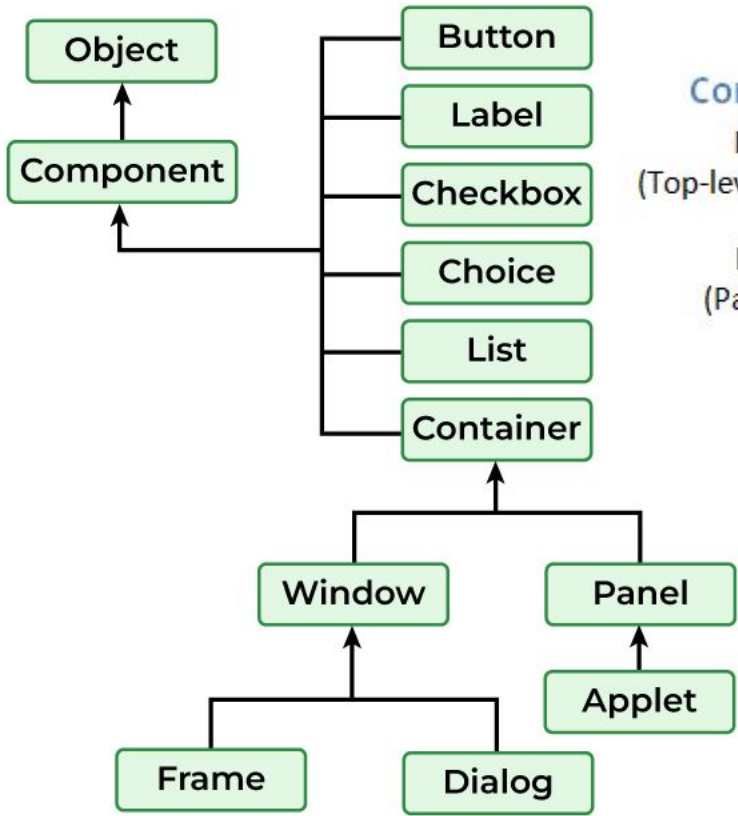
GUI

**AWT**

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# GUI

# AWT





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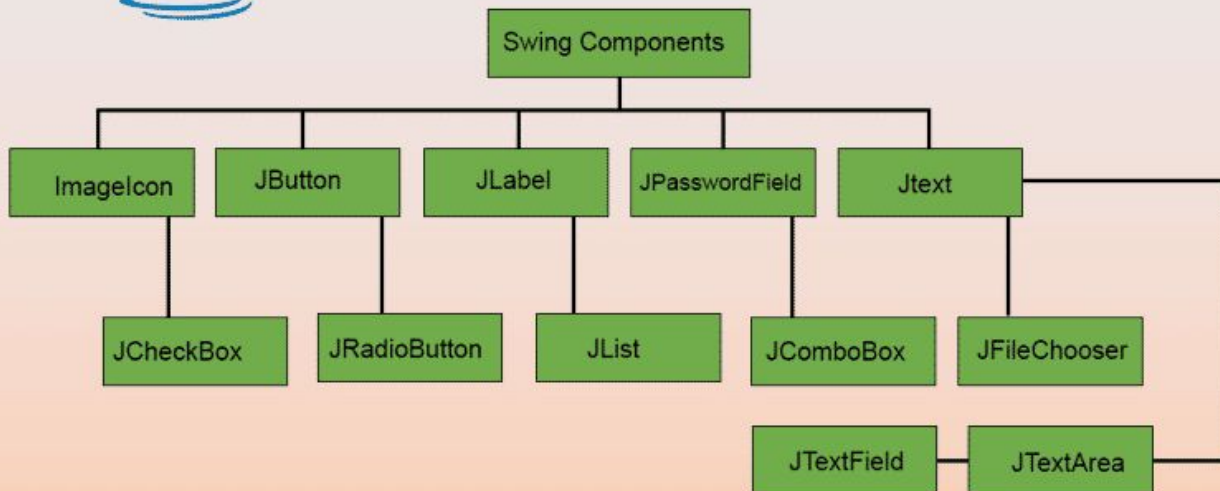
GUI

**Swing**

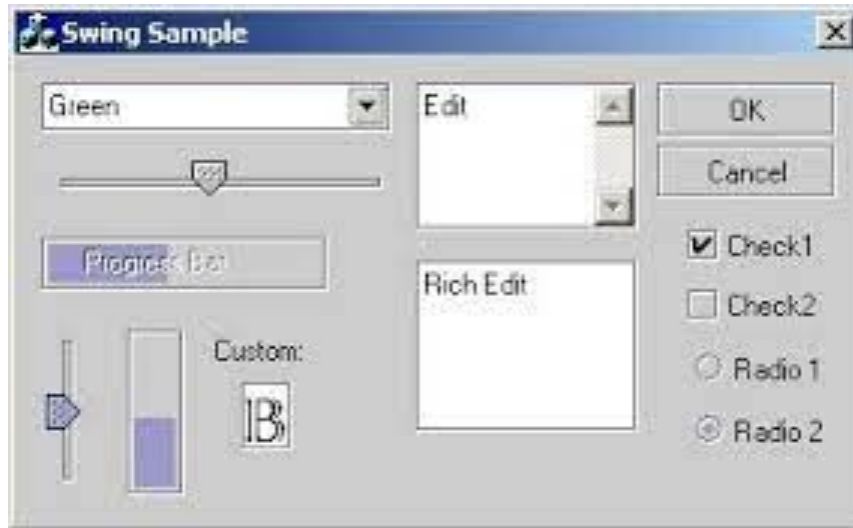
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## Swing Components in Java



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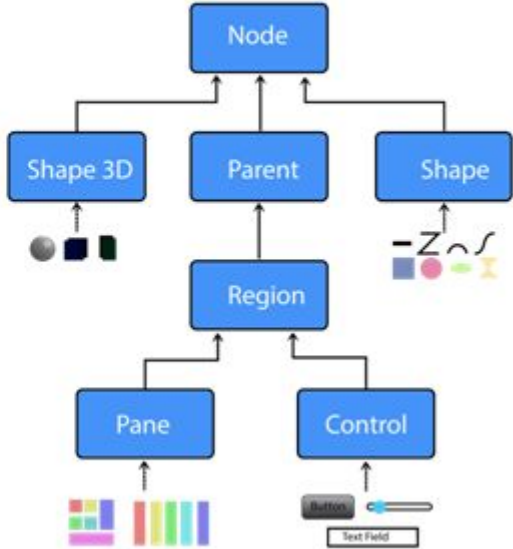
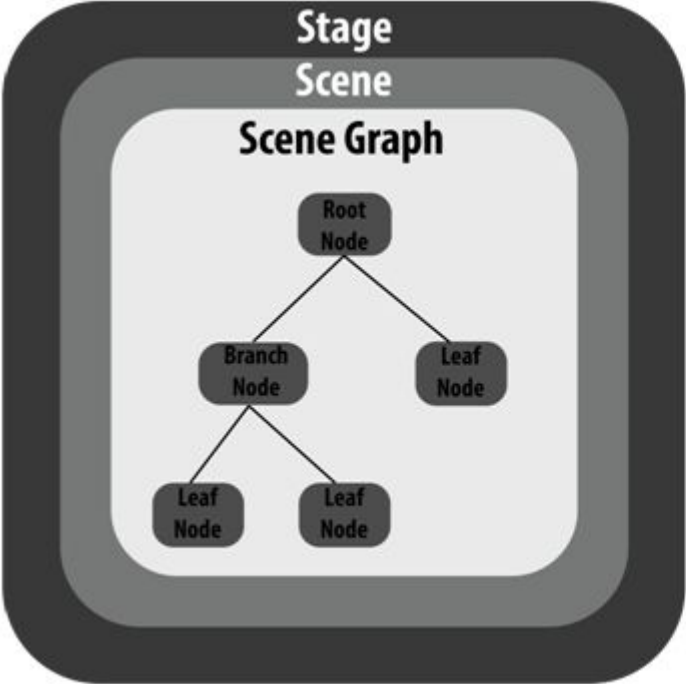
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GUI

**FX**

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# GUI



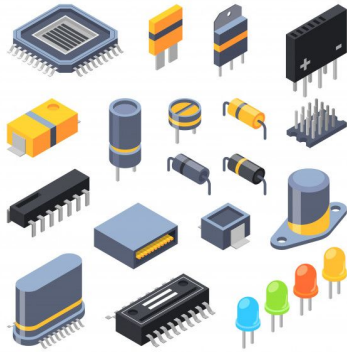
# Performance

AWT  
Swing  
FX



GUI

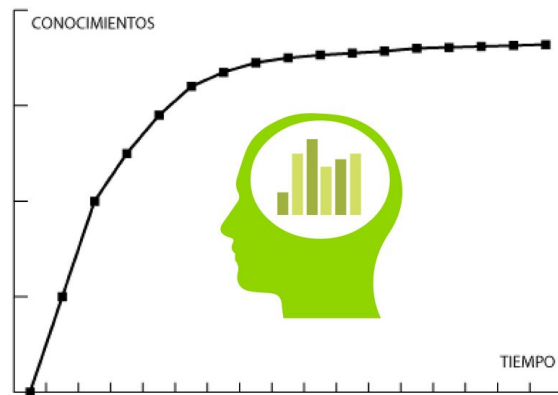
# Componentes



AWT  
Swing  
FX

# Usos y curva de aprendizaje

**AWT**  
**Swing**  
**FX**





# Compatibilidad



COMPATIBILITY

**AWT**  
**Swing**  
**FX**

GUI

# Soporte y mantenimiento



**AWT**  
**Swing**  
**FX**

GUI

# Compatibilidad de plataformas

**AWT**  
**Swing**  
**FX**



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# Swing DEMO

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# Swing ELEMENTOS

## JFrame

```
JFrame frame = new JFrame("Título de la Ventana");
```

## JPanel

```
JPanel panel = new JPanel();
```

## JButton

```
JButton button = new JButton("Haz clic aquí");
```



## JLabel

```
JLabel label = new JLabel("Etiqueta de texto");
```

## JTextField

```
JTextField textField = new JTextField(15);
```

## JTextArea

```
JTextArea textArea = new JTextArea(5, 20);
```

## JPasswordField

```
JPasswordField passwordField = new JPasswordField(15);
```



## JComboBox

```
JComboBox<String> comboBox = new JComboBox<>(new  
String[]{"Opción 1", "Opción 2", "Opción 3"});
```

## JCheckBox

```
JCheckBox checkBox = new JCheckBox("Opción");
```

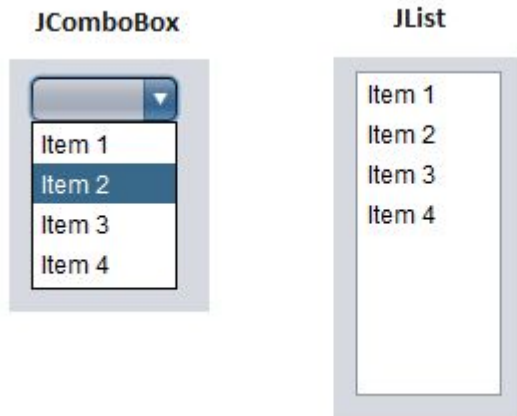


## JRadioButton

```
JRadioButton radioButton = new  
JRadioButton("Opción");  
ButtonGroup group = new ButtonGroup();  
group.add(radioButton);
```



## JList



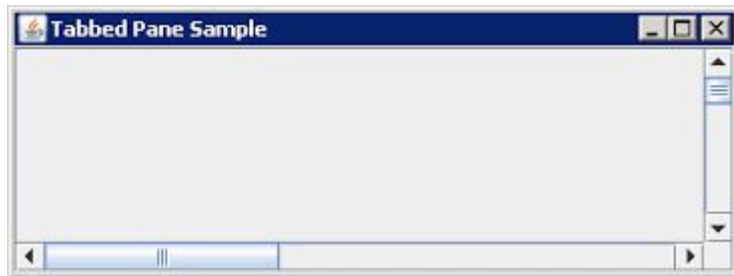
```
JList<String> list = new JList<>(new  
String[]{"Elemento 1", "Elemento 2", "Elemento 3"});
```



## JTable

```
JTable table = new JTable(data, columnNames);
```

## JScrollPane



```
JScrollPane scrollPane = new JScrollPane(textArea);
```

## JMenuBar

```
JMenuBar menuBar = new JMenuBar();
```

## JMenu

```
JMenu menu = new JMenu("Menú");
```

## JMenu

```
JMenuItem menuItem = new JMenuItem("Elemento de  
menú");
```



**¿Preguntas?**