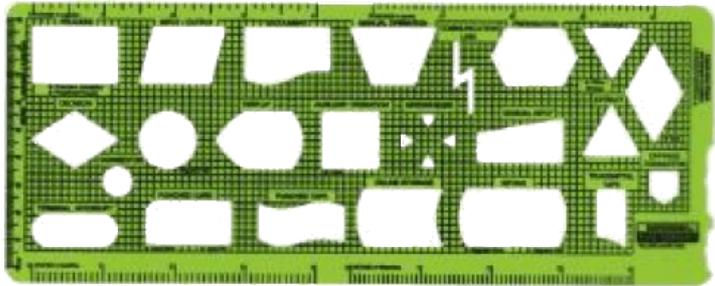


Lógica e Programação Java



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- Visualização gráfica
- Classe `javax.swing.JOptionPane`



Abstract Window Toolkit – AWT

Classe gráfica baseada nos padrões da GUI

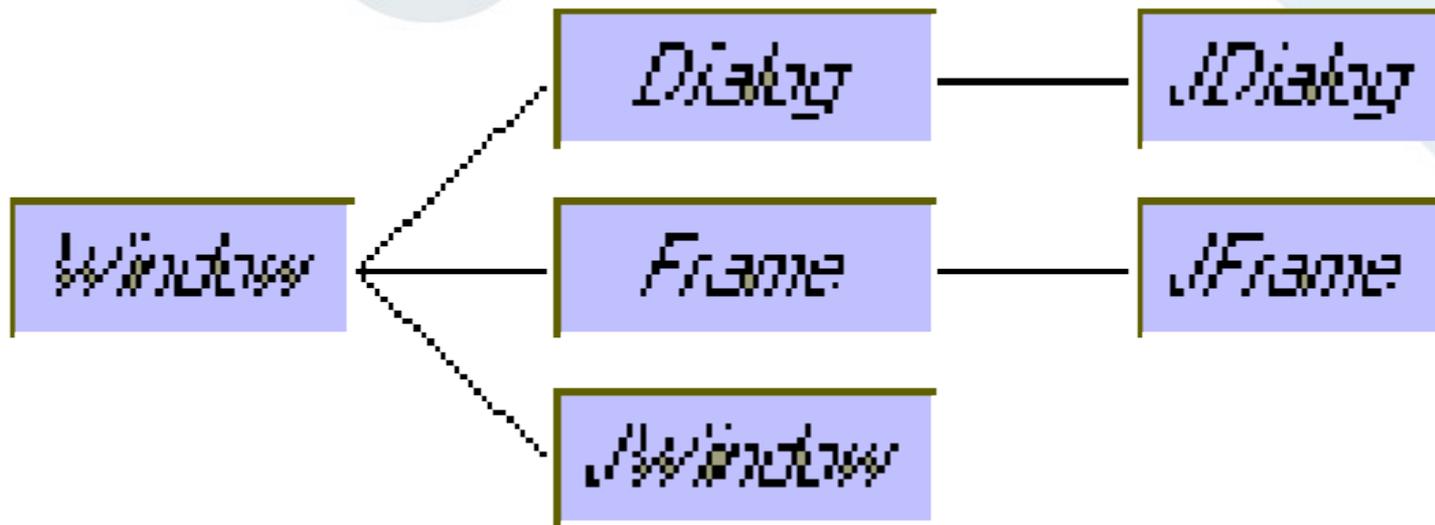
Containers e Componentes

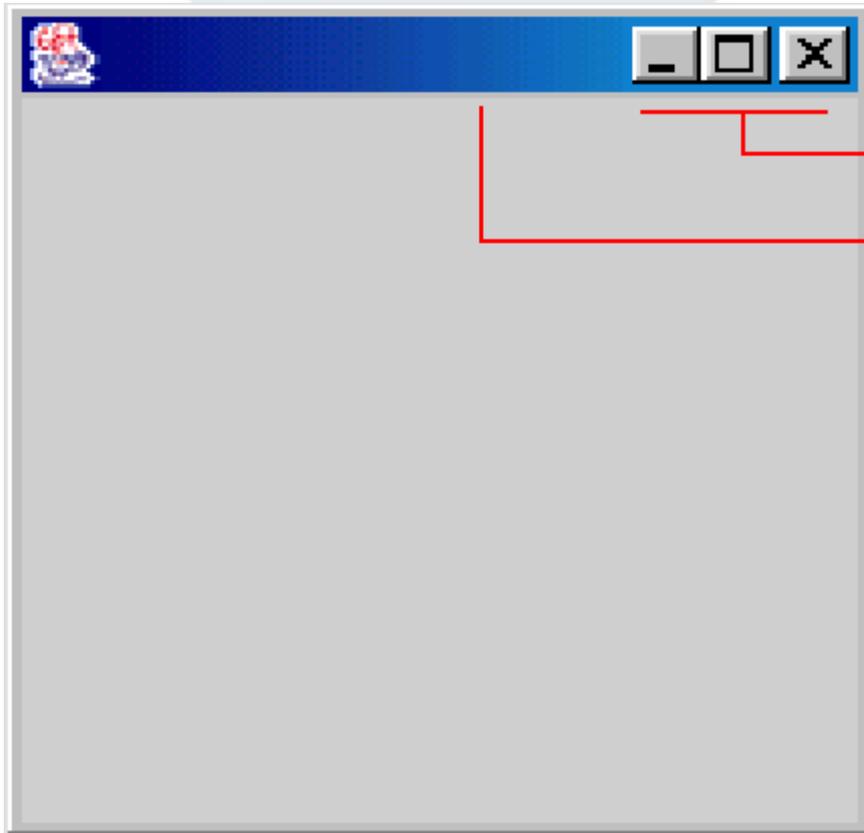
Containers são objetos que podem conter componentes

SWING

Nova classe gráfica derivada da AWT

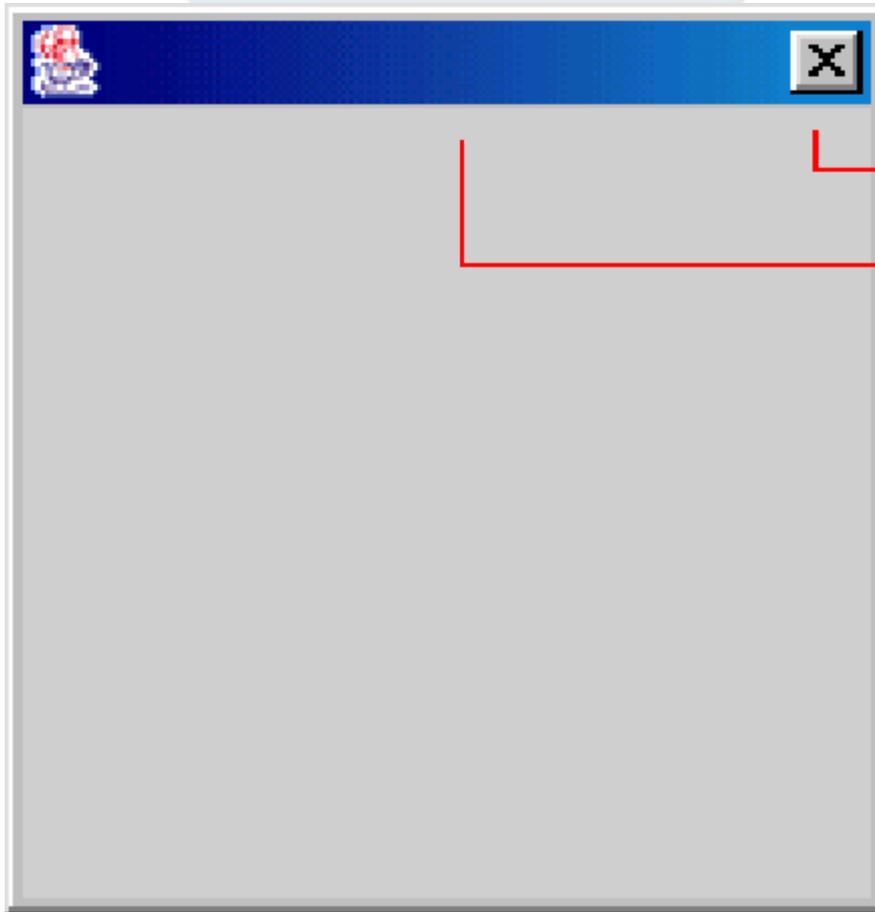




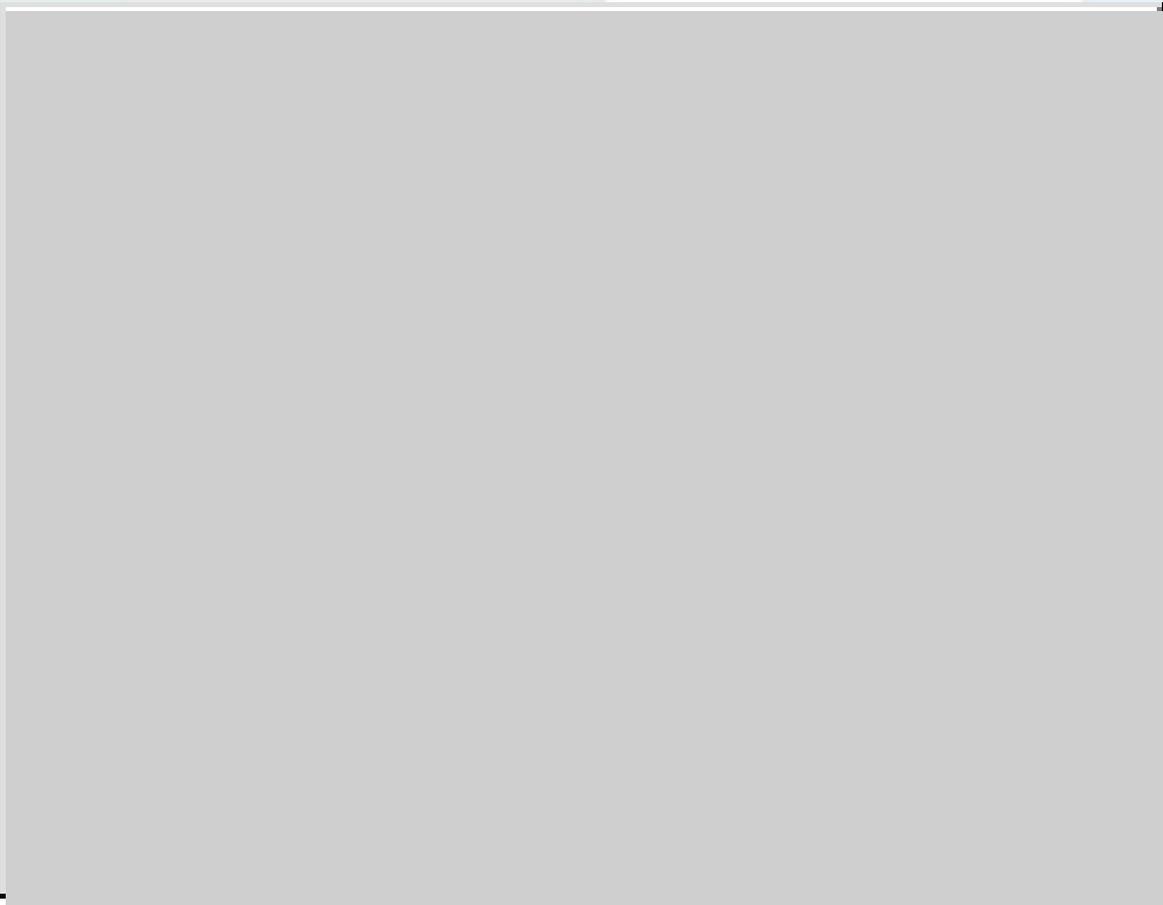


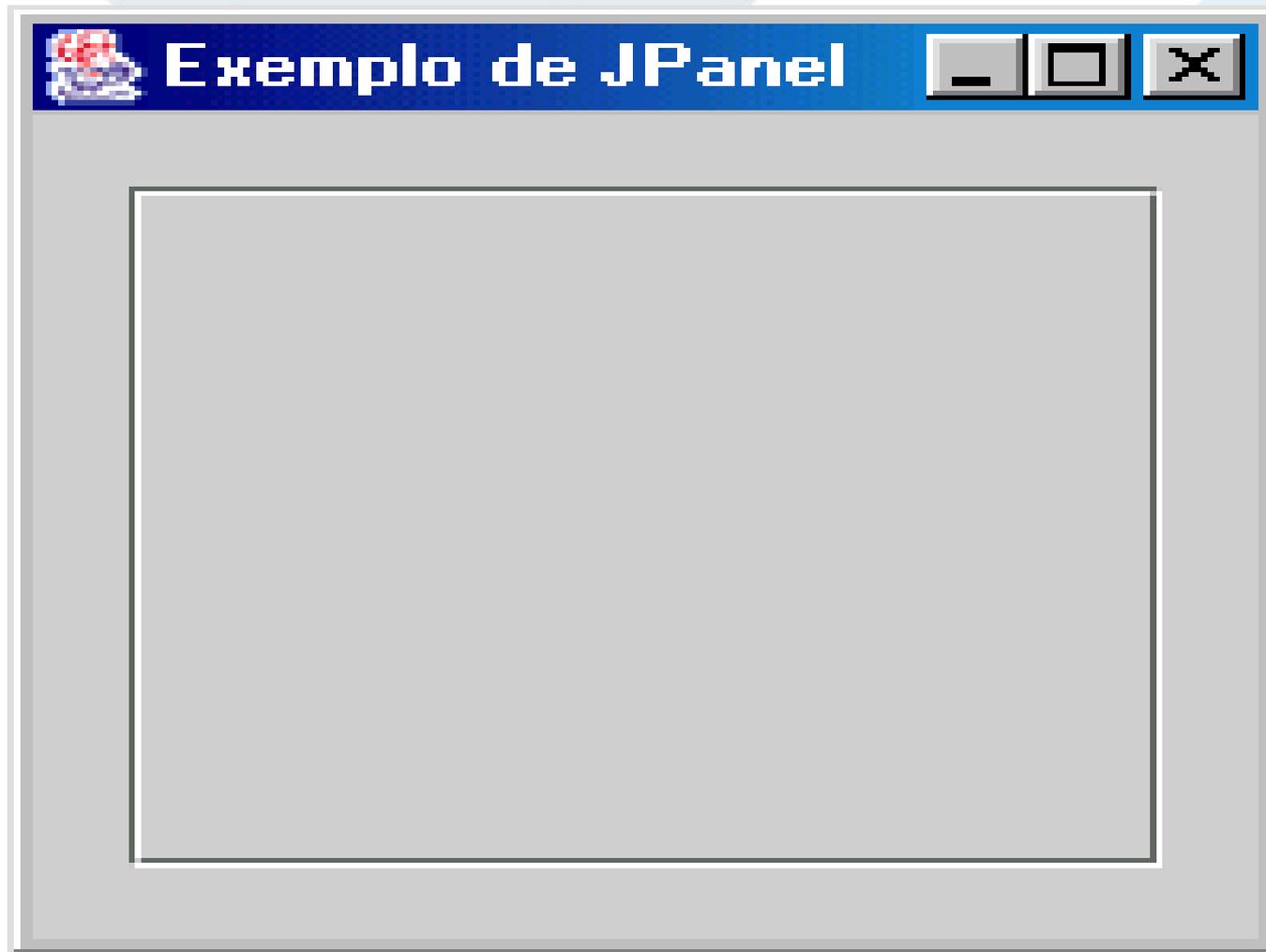
Botões de Controle
Título





Botões de Controle
Título







Os tipos padrões de Layouts são:

FlowLayout - Esquerda para direita na ordem
BorderLayout - Norte, Sul, Leste, Oeste e Centro
GridLayout - Em linhas e colunas ajustando objetos

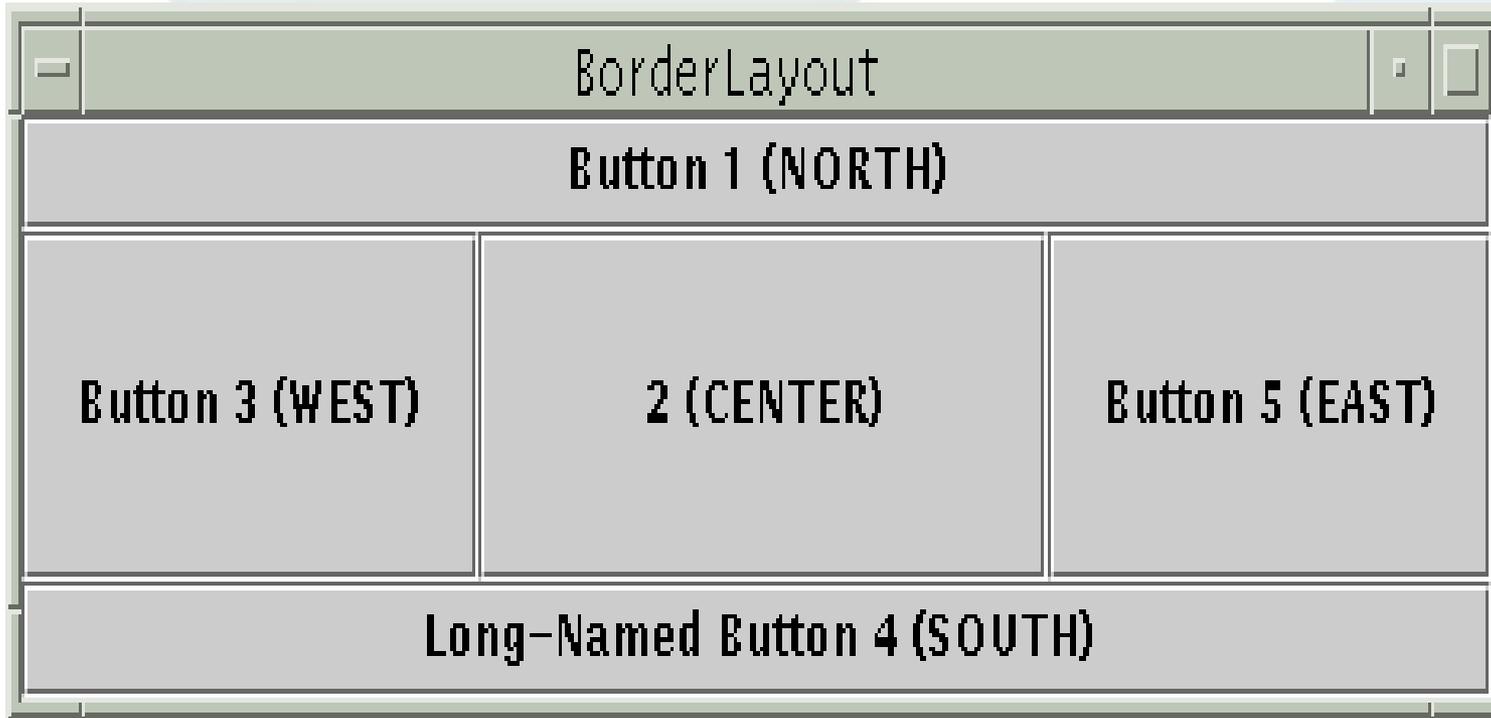
Por padrão:

FlowLayout - Applet, Panel e JPanel
BorderLayout - Window, Frame, JFrame e JApplet

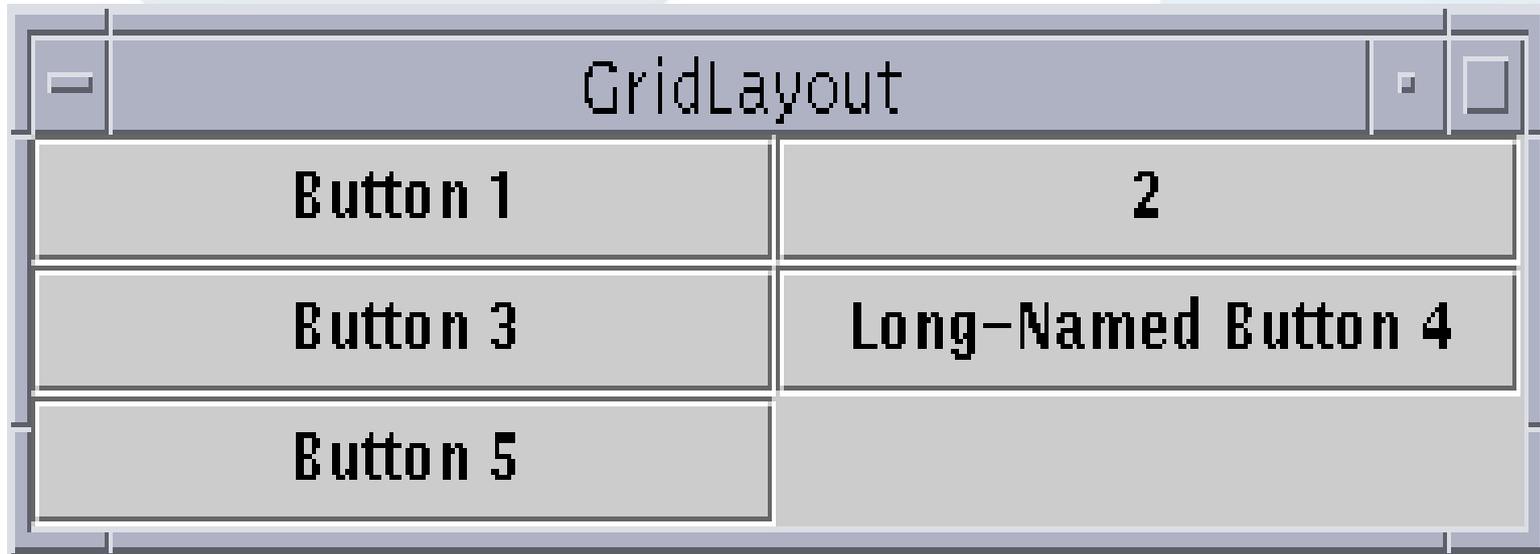




Encaixa os objetos na janela na ordem de criação da esquerda para a direita

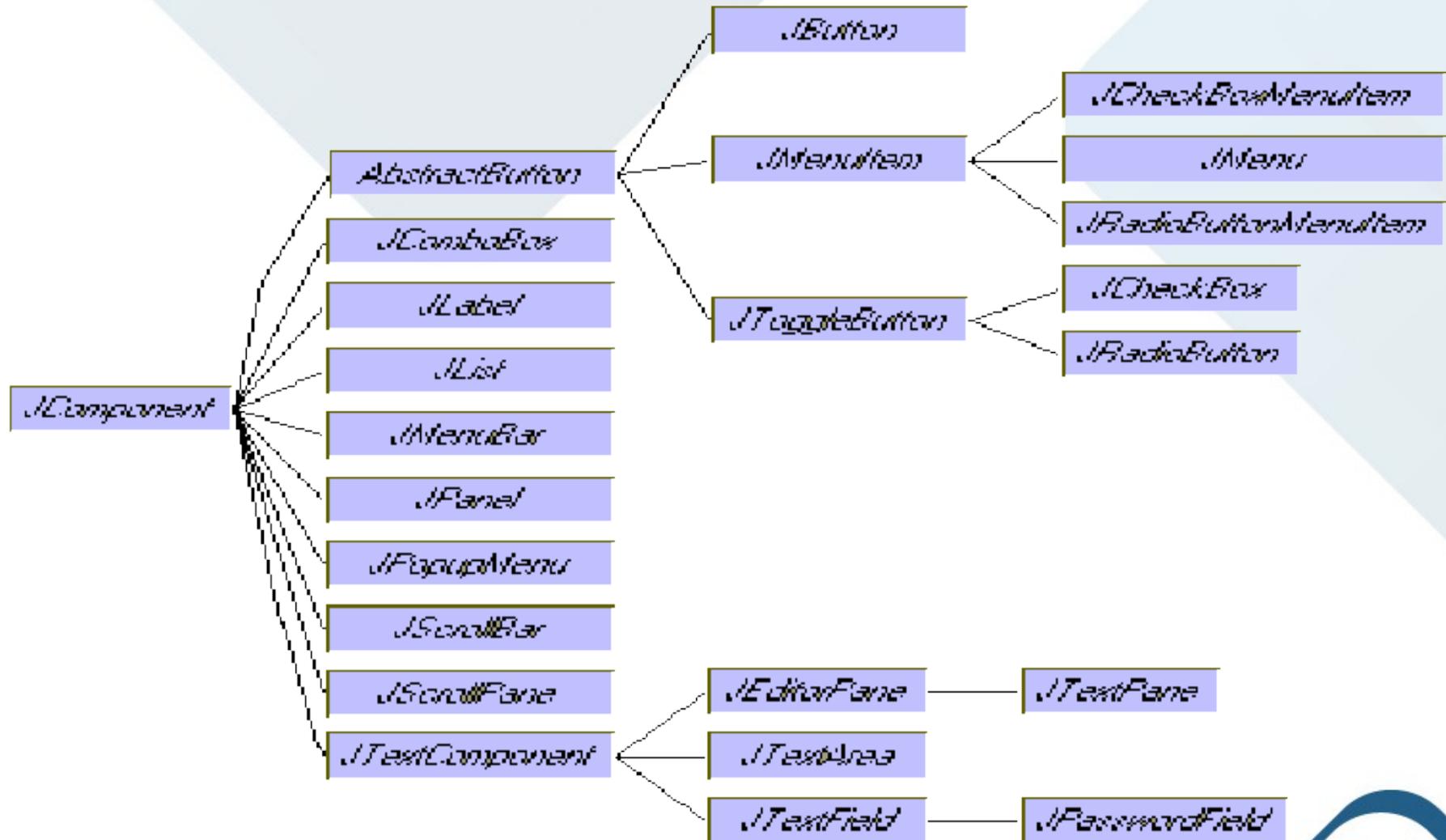


Encaixa os objetos por coordenadas geográficas, se a coordenada for omitida por padrão força o centro



Divide a janela em linhas e colunas

Componentes da Swing



JLabel

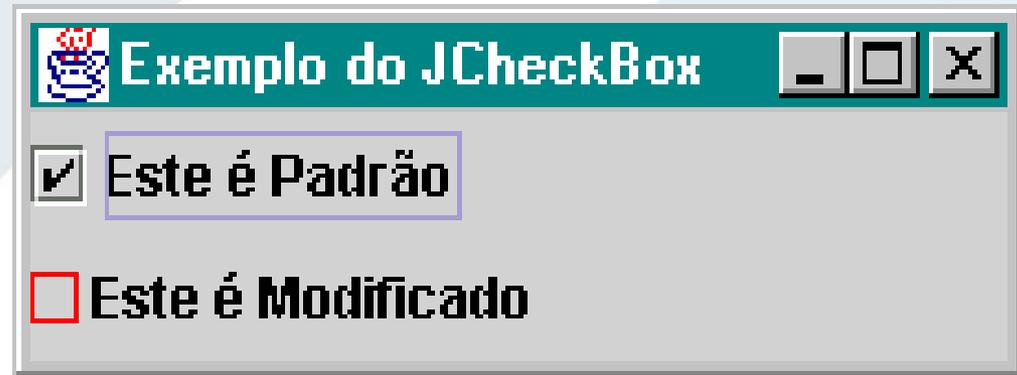


JButton

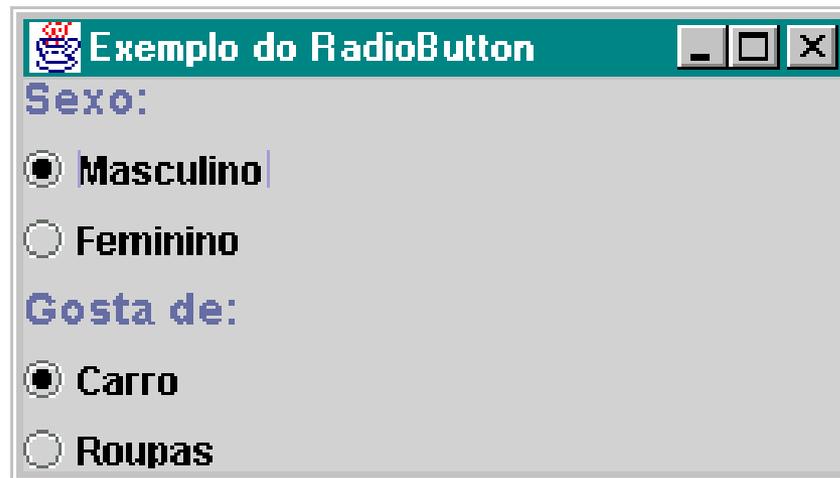


JCheckBox e JRadioButton

JCheckBox



JRadioButton



JScrollPane

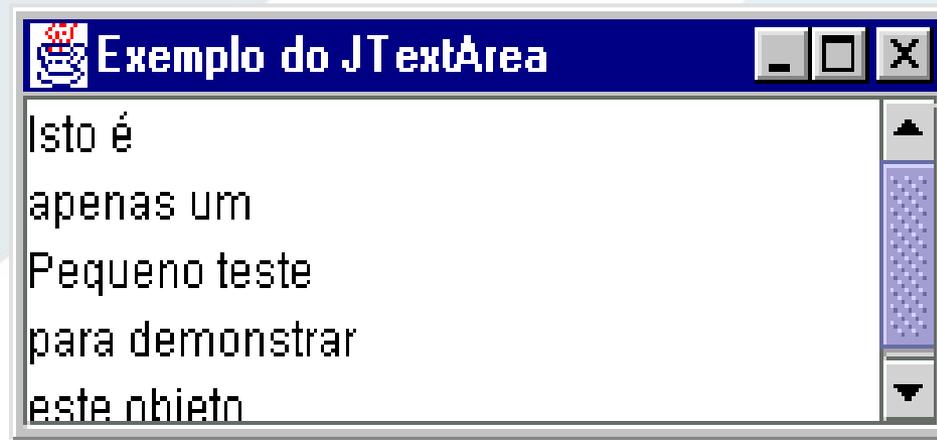


JTextField



JTextArea e JPasswordField

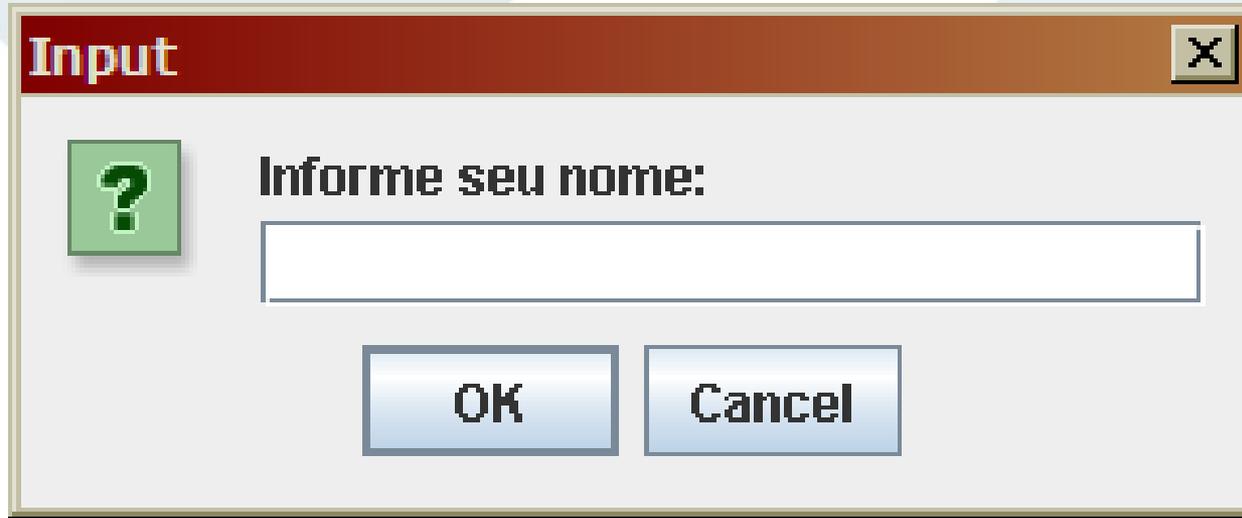
JTextArea



JPasswordField



Entrada de Informação – Via Janela



```
String retorno =  
    javax.swing.JOptionPane.showInputDialog( null,  
    "Mensagem");
```



Saída de Informação – Via Janela



```
javax.swing.JOptionPane.showMessageDialog( null,  
    "Mensagem", ["Título"], [ícone]);
```

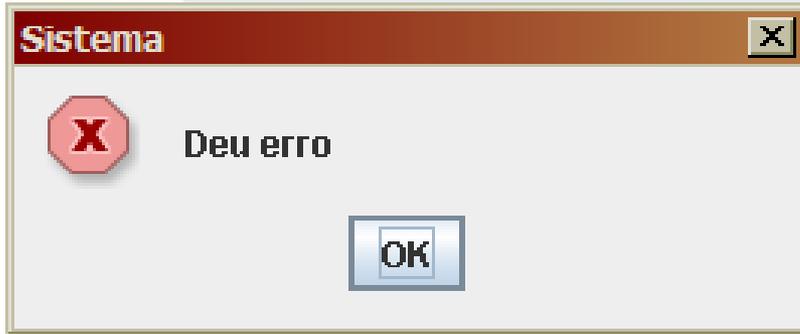
default: INFORMATION_MESSAGE



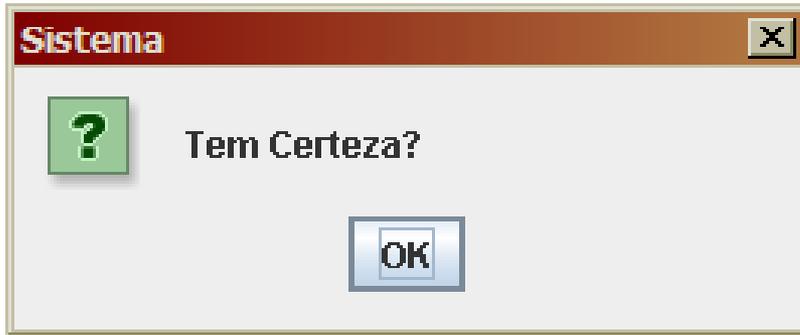
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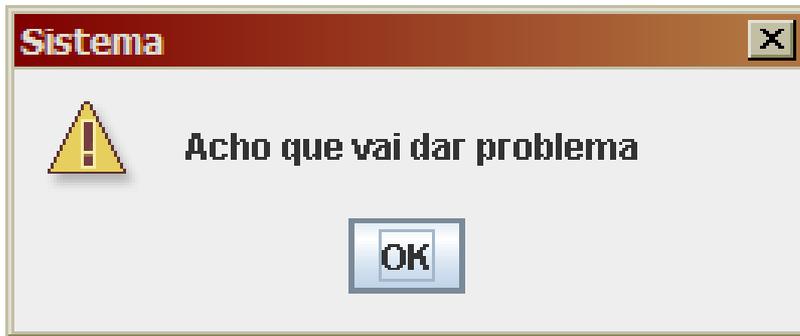
Parâmetros do Ícone da Janela de Saída



ERROR_MESSAGE



QUESTION_MESSAGE



WARNING_MESSAGE



Dúvidas? Agradecimentos

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