INTERFACE GRÁFICO

JAVA

PACOTES

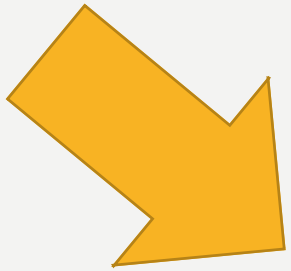
Java.awt

Java.swing (extensão)

COMPONENTES

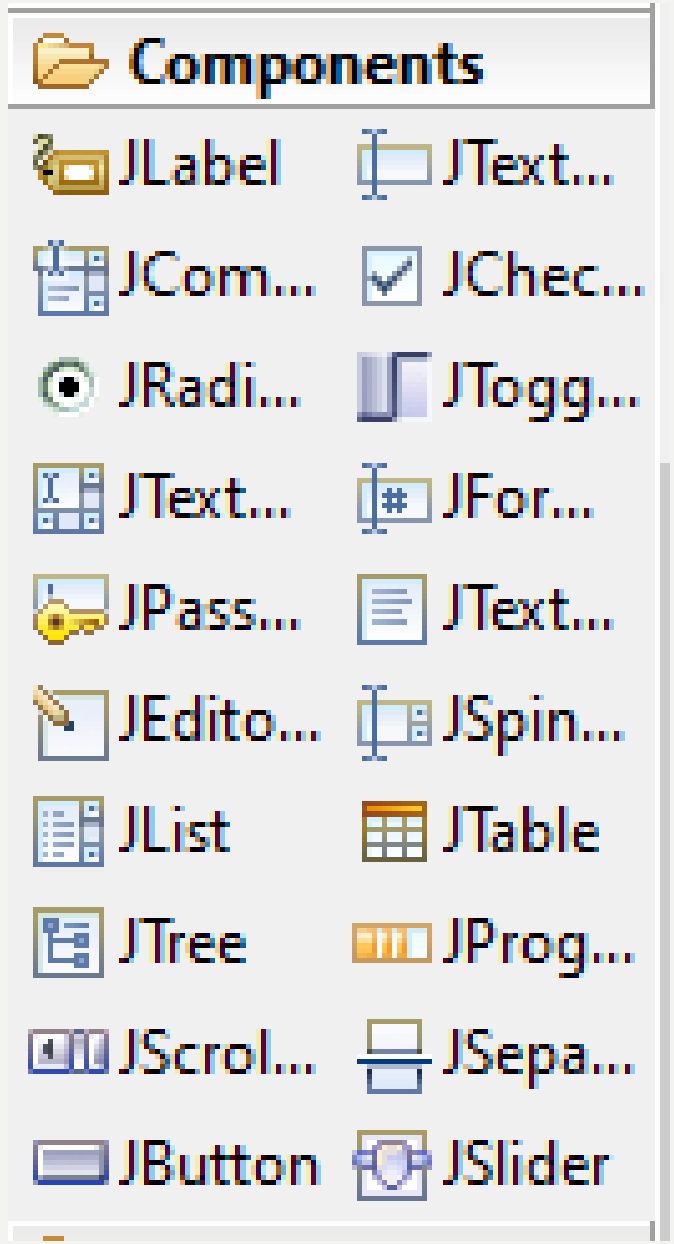
Os objetos da Classe Java.swing denominam-se componentes

Todas as interfaces gráficas constroem-se através de componentes denominados de contentores (Janelas e painéis)

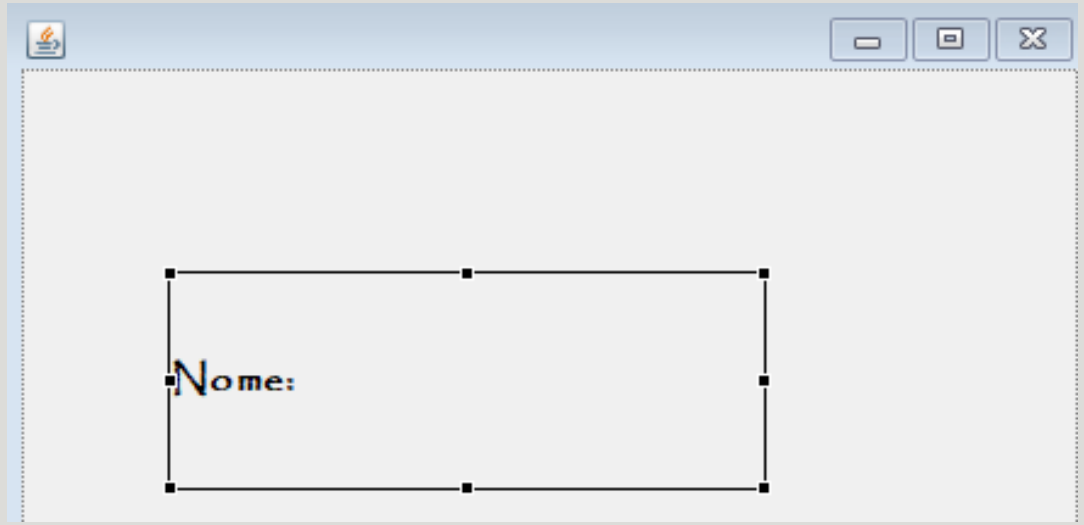


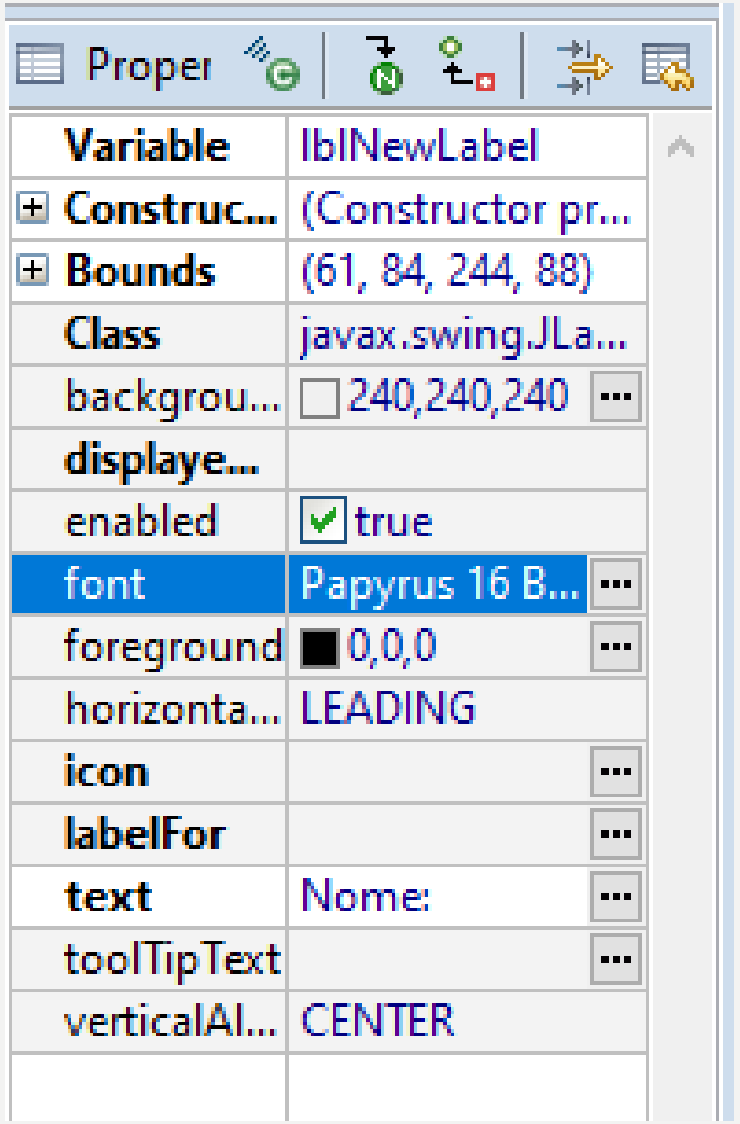
Botões, Rótulos, Caixas de Texto

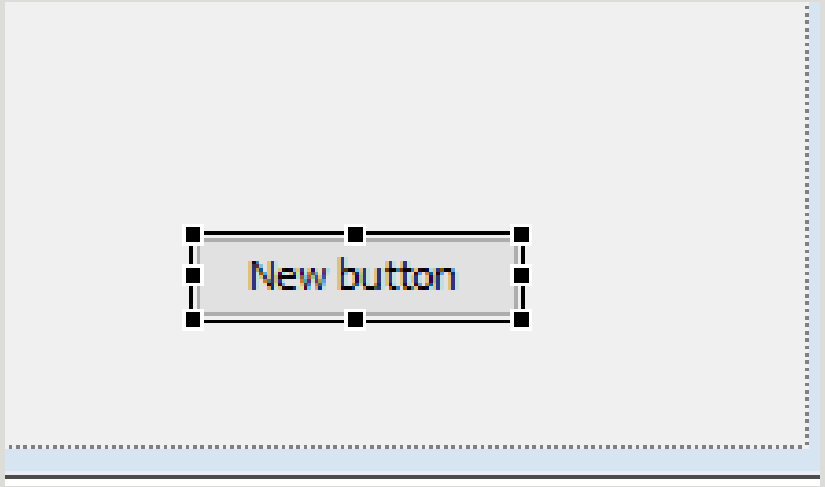
COMPONENTES



PROPRIEDADES







Proper

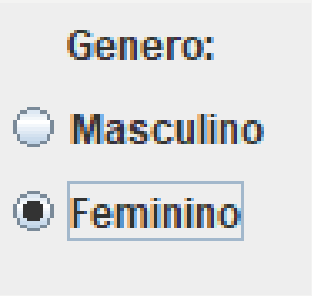
Variable	btnNewButton
Construc...	(Constructor pr...
Bounds	(267, 203, 89, 23)
x	267
y	203
width	89
height	23
Class	javax.swing.JBu...
backgrou...	240,240,240
enabled	true
font	Tahoma 11
foreground	0,0,0
horizonta...	CENTER
icon	
mnemon...	
selectedI...	
text	New button
toolTipText	
verticalAl...	CENTER

COMBOBOX RADIOBUTTON CHECKBOX

comboBox.getSelectedItem()

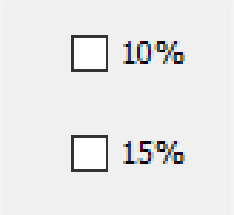

```
JOptionPane.showMessageDialog(null, "Nacionalidade: " + combobox.getSelectedItem());
```

```
ButtonGroup group = new ButtonGroup();
    group.add(rdbtnFeminino);
    group.add(rdbtnMasculino);
```




```
NomeDoRadioButton.isSelected()
```

```
chckbxNewCheckBox_1.isSelected()
```



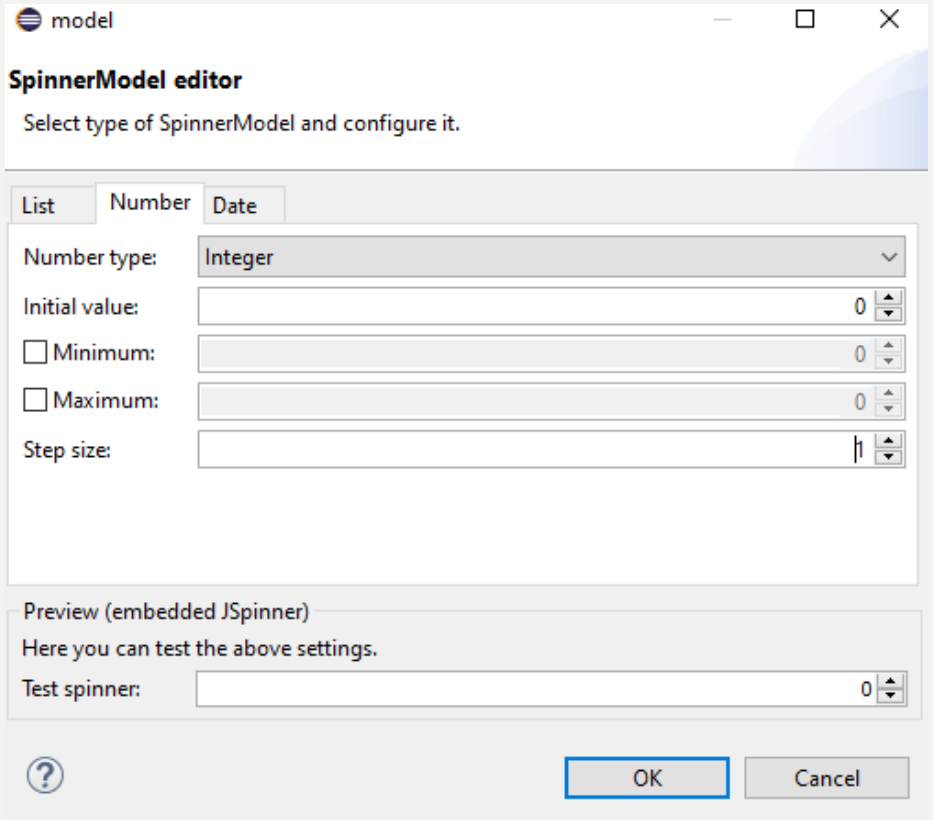
```
ButtonGroup group = new ButtonGroup();
    group.add(rdbtnFeminino);
    group.add(rdbtnMasculino);

Nomedobutton.SetActionCommand(“chá”);
```

SPINNER

```
spinner.getValue();

JOptionPane.showMessageDialog(null, "\n  Ano de Licença Médica: "
+ spinner.getValue());
```



PROGRESSBAR

maximum	100
minimum	0
orientation	HORIZONTAL
stringPain...	false
toolTipText	
value	50

```
String num  = textField_1.getText();
int numero = Integer.parseInt(num);
if(numero>=20)
{
progressBar.setValue(100);
progressBar.setForeground(Color.GREEN);

}
else
{
progressBar.setValue(80);
progressBar.setForeground(Color.BLUE);
}
```

COMPONENTES

- Jtable
- JScrollBar
- JSlider

JTABLE

```
public class TabExemplo extends JFrame
{
    public TabExemplo()
    { //Cabeçalho da tabela
        String[] columns = new String[] {
            "Id", "Nome", "Idade"
        };
        Object[][] data = new Object[][] {
            {1, "Joao", 40.0 },
            {2, "Rui", 70.0 },
            {3, "Pedro", 60.0 },
        };
        //create table with data
        JTable table = new JTable(data, columns);
        //add the table to the frame
        this.add(new JScrollPane(table));
        this.setTitle("Tabela Exemplo");
        this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        this.pack();
        this.setVisible(true);}
}
```

```
private void initialize() {
new TabExemplo();

}
```

JAVA E SQL

- XAMPP – inclui os principais servidores de código aberto (MYSQL, PHP, PERL, APACHE)

- PHPMyAdmin –

  Administração da BD através de uma interface web, (para quem não gosta de linha de comandos)

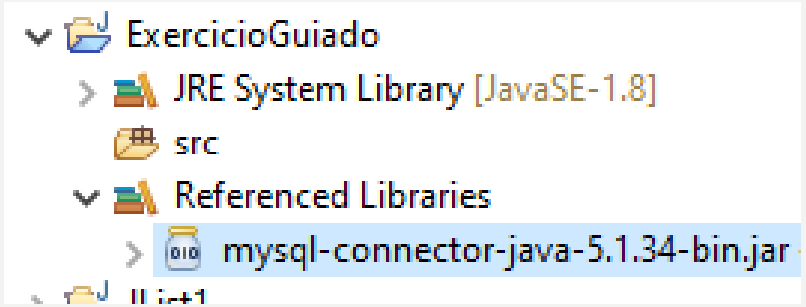
  Importar e exportar dados

MYSQLWorckBench -

- ferramenta que permite o desenho e gestão de base de dados. Com esta app pode criar **diagramas ER**, gerar scripts SQL, fazer consultas às bases de dados e muito mais
  - Através do scripts SQL, ao exportar o script poderá posteriormente importar no PhpMyAdmin.

LIBRARIES

Necessário ter o connetor do java para mysql, para tal terá de fazer o download mysql-conector-java-5.1.34-bin.jar



Botão direito em cima do PRJ

BuildPath – Add External Archives

mysql-conector-java-5.1.34-bin.jar

- import java.io.IOException;
- import java.sql.Connection;
- import java.sql.DriverManager;
- import java.sql.PreparedStatement;
- import java.sql.SQLException;
- import java.sql.ResultSet;
- import java.sql.Statement;

PREPAREDSTATMENT VS STATEMENT