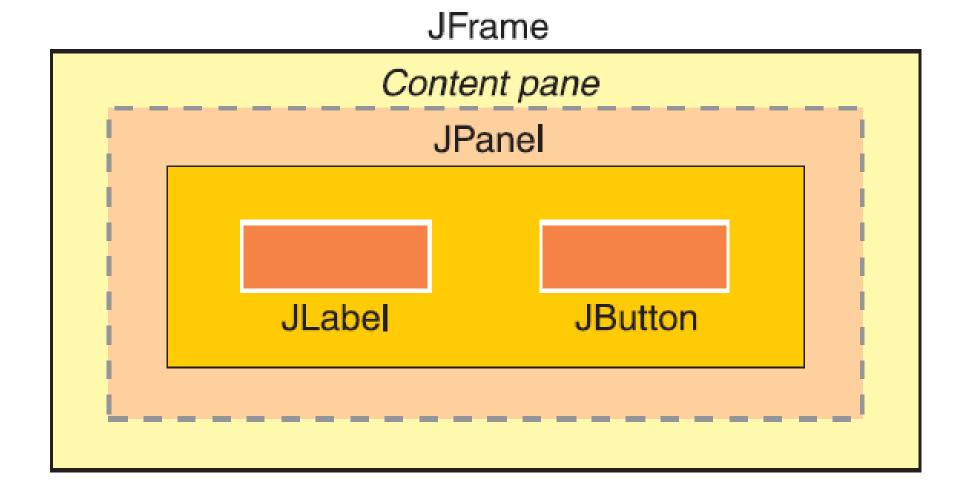
APPLICAZIONI GRAFICHE in JAVA

I panel in JAVA (JPanel)

I pannelli (pane) hanno lo scopo di organizzare le componenti atomiche nella finestra, semplificandone il posizionamento.



```
public class Main {
    public static void main(String[] args) {
        //JPanel = a GUI component that functions as a container to hold other components
        JPanel pannelloRosso = new JPanel();
        pannelloRosso.setBackground(Color.red);
        pannelloRosso.setBounds(0,0,250,250);
        JFrame frame = new JFrame();
                                                                   📤 Prima Applicazione Grafica
        frame.setTitle("Prima Applicazione Grafica");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setLayout(null); <--</pre>
        frame.setSize(650,650);
        frame.add(pannelloRosso);
        frame.setVisible(true);
    }//main
```

```
public class Main {
    public static void main(String[] args) {
        //JPanel = a GUI component that functions as a container to hold other components
        JPanel pannelloRosso = new JPanel();
        pannelloRosso.setBackground(Color.red);
        pannelloRosso.setBounds(0,0,250,250);
        JPanel pannelloVerde = new JPanel();
                                                                   Prima Applicazione Grafica
        pannelloVerde.setBackground(Color.green);
        pannelloVerde.setBounds(250,250,250,250);
        JFrame frame = new JFrame();
        frame.setTitle("Prima Applicazione Grafica");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setLayout(null);
        frame.setSize(650,650);
        frame.add(pannelloRosso);
        frame.add(pannelloVerde);
        frame.setVisible(true);
    }//main
```

```
//JPanel = a GUI component that functions as a container to hold other components
JPanel pannelloRosso = new JPanel();
pannelloRosso.setBackground(Color.red);
pannelloRosso.setBounds(0,0,250,250);
                                                           Prima Applicazione Grafica
JPanel pannelloVerde = new JPanel();
pannelloVerde.setBackground(Color.green);
pannelloVerde.setBounds(250,250,250,250);
JPanel pannelloBlu = new JPanel()
pannelloBlu.setBackground(Color.blue);
pannelloBlu.setBounds(500,500,150,2150);
JFrame frame = new JFrame();
frame.setTitle("Prima Applicazione Grafica");
frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
frame.setLayout(null);
frame.setSize(650,650);
frame.add(pannelloRosso);
frame.add(pannelloVerde);
frame.add(pannelloBlu);
frame.setVisible(true);
```

Aggiungere una JLabel in un Jpanel (frame.setLayout (null);

```
ImageIcon icon = new ImageIcon("img/sorriso.jpg");
                                                      Prima Applicazione Grafica
JLabel label = new JLabel();
label.setText("Ciao da Homer");
label.setIcon(icon);
label.setVerticalAlignment(JLabel.CENTER);
//JPanel = a GUI component that functions as a conf
JPanel pannelloRosso = new JPanel();
pannelloRosso.setBackground(Color.red);
pannelloRosso.setBounds(0,0,250,250);
pannelloRosso.add(label);
                                                 Ciao da Homer
pannelloVerde.add(label);
pannello.add(label);
```

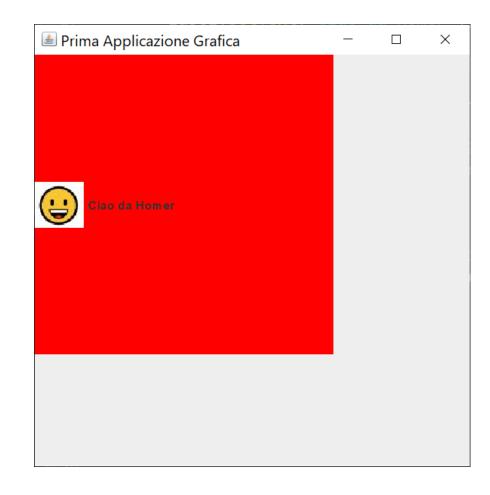
Posizionare una JLabel in un Jpanel (BorderLayout)

```
public class Main {
   public static void main(String[] args) {
       ImageIcon icon = new ImageIcon("img/sorriso.jpg");
       JLabel label = new JLabel();
       label.setText("Ciao da Homer");
       label.setIcon(icon);
       label.setVerticalAlignment(JLabel.TOP);
       JPanel pannelloRosso = new JPanel();
       pannelloRosso.setBackground(Color.red);
       pannelloRosso.setBounds(0,0,300,300);
       pannelloRosso.setLayout(new BorderLayout());
       pannelloRosso.add(label);
       JFrame frame = new JFrame();
       frame.setTitle("Prima Applicazione Grafica");
       frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       frame.setLayout(null);
       frame.setSize(450,450);
       frame.add(pannelloRosso);
       frame.setVisible(true);
   }//main
```



Posizionare una JLabel in un Jpanel (BorderLayout)

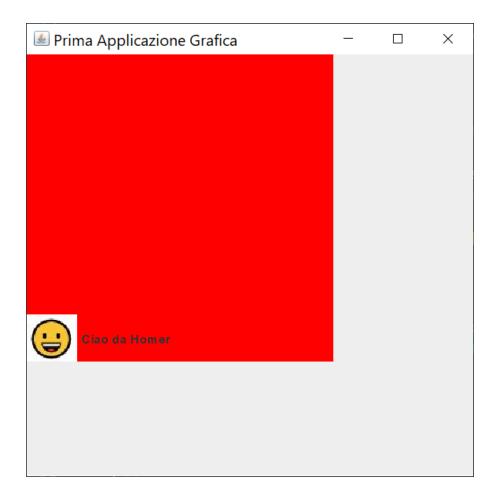
```
public class Main {
    public static void main(String[] args) {
       ImageIcon icon = new ImageIcon("img/sorriso.jpg");
       JLabel label = new JLabel();
        label.setText("Ciao da Homer");
        label.setIcon(icon);
        label.setVerticalAlignment(JLabel.CENTER);
       JPanel pannelloRosso = new JPanel();
        pannelloRosso.setBackground(Color.red);
        pannelloRosso.setBounds(0,0,300,300);
        pannelloRosso.setLayout(new BorderLayout());
        pannelloRosso.add(label);
       JFrame frame = new JFrame();
       frame.setTitle("Prima Applicazione Grafica");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       frame.setLayout(null);
       frame.setSize(450,450);
       frame.add(pannelloRosso);
       frame.setVisible(true);
    }//main
```



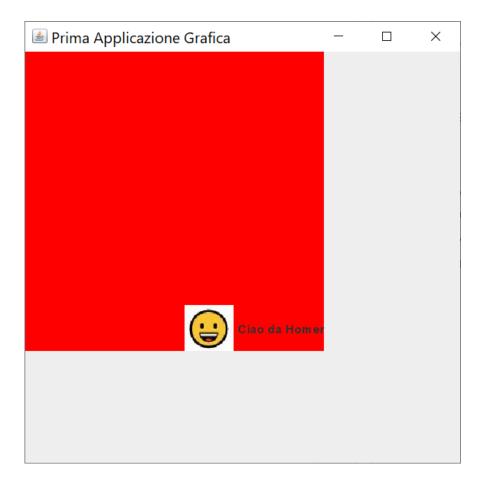
frame.setLayout(null);

Posizionare una JLabel in un Jpanel (BorderLayout)

```
public class Main {
    public static void main(String[] args) {
        ImageIcon icon = new ImageIcon("img/sorriso.jpg");
        JLabel label = new JLabel();
        label.setText("Ciao da Homer");
        label.setIcon(icon);
        label.setVerticalAlignment(JLabel.BOTTOM);
        JPanel pannelloRosso = new JPanel();
        pannelloRosso.setBackground(Color.red);
        pannelloRosso.setBounds(0,0,300,300);
        pannelloRosso.setLayout(new BorderLayout());
        pannelloRosso.add(label);
        JFrame frame = new JFrame();
        frame.setTitle("Prima Applicazione Grafica");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setLayout(null);
        frame.setSize(450,450);
        frame.add(pannelloRosso);
        frame.setVisible(true);
    }//main
```



```
public class Main {
    public static void main(String[] args) {
        ImageIcon icon = new ImageIcon("img/sorriso.jpg");
        JLabel label = new JLabel();
        label.setText("Ciao da Homer");
        label.setIcon(icon);
        label.setVerticalAlignment(JLabel.BOTTOM);
        label.setHorizontalAlignment(JLabel.RIGHT);
        JPanel pannelloRosso = new JPanel();
        pannelloRosso.setBackground(Color.red);
        pannelloRosso.setBounds(0,0,300,300);
        pannelloRosso.setLayout(new BorderLayout());
        pannelloRosso.add(label);
        JFrame frame = new JFrame();
        frame.setTitle("Prima Applicazione Grafica");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setLayout(null);
        frame.setSize(450,450);
        frame.add(pannelloRosso);
        frame.setVisible(true);
    }//main
```



label.setHorizontalAlignment(JLabel.CENTER);



```
public class Main {
   public static void main(String[] args) {
       ImageIcon icon = new ImageIcon("img/sorriso.jpg");
       JLabel label = new JLabel();
       label.setText("Ciao da Homer");
        label.setIcon(icon);
       label.setVerticalAlignment(JLabel.BOTTOM);
       label.setHorizontalAlignment(JLabel.LEFT);
       JPanel pannelloRosso = new JPanel();
       pannelloRosso.setBackground(Color.red);
       pannelloRosso.setBounds(0,0,300,300);
        pannelloRosso.setLayout(new BorderLayout());
       pannelloRosso.add(label);
       JFrame frame = new JFrame();
       frame.setTitle("Prima Applicazione Grafica");
       frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       frame.setLayout(null);
       frame.setSize(450,450);
       frame.add(pannelloRosso);
       frame.setVisible(true);
    }//main
```

