

Hello World GUI

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HelloWorldGUI.java

```
1  import java.net.URL;
   import java.awt.*;
3  import java.awt.event.*;

5  import javax.swing.*;

7  public class HelloWorldGUI extends JFrame
   {
9      public HelloWorldGUI()
       {
11         super("Hello World!");

13         ImageIcon ic = getIcon("logo.png", "Logo");

15         if (ic != null)
           {
17             setIconImage(ic.getImage());
           }

19         getContentPane().add(
21             new JLabel("Hello World!",
23                 getIcon("sample.png", "sample image"),
25                 SwingConstants.LEFT),
27             "Center");

29         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

31         Toolkit tk = Toolkit.getDefaultToolkit();
33         Dimension dim = tk.getScreenSize();
35         setSize(dim.width*3/4, dim.height*3/4);

37         //setExtendedState(MAXIMIZED_BOTH);
39     }

41     public ImageIcon getIcon(String name, String description)
       {
43         String imgLocation = "icons/"+name;
45         URL imageURL = getClass().getResource(imgLocation);

47         ImageIcon ic = null;

49         if (imageURL != null)
           {
51             ic = new ImageIcon(imageURL, description);
           }

53         return ic;
55     }

57     public static void main(String[] args)
       {
59         try
           {
61             SwingUtilities.invokeLater(new Runnable()
               {
                   public void run()
                   {
                       (new HelloWorldGUI()).setVisible(true);
                   }
               });
           }
       }
```

```
        catch (InterruptedException | java.lang.reflect.InvocationTargetException e)
63     {
        e.printStackTrace();
65     }
    }
67 }
```

Binary Files

icons/sample.png

Binary file included. Size: 1,546 bytes.



icons/logo.png

Binary file included. Size: 762 bytes.

HW

Application

Compiler Invocation

```
javac -Xlint:unchecked -Xlint:deprecation -encoding UTF-8 -d  
  prepasg16759434022494291330classes HelloWorldGUI.java
```

Compiler Messages

None.