Unidad 5

14 - Componentes Básicos SWING









JPanel y JLabel

```
import javax.swing.*;
import javax.swing.event. *;
import java.awt.*;
public class Ventana extends JFrame{
 public Ventana() {
    Container c = getContentPane();
    c.setLayout(new FlowLayout());
    JPanel p = new JPanel();
    p.add(new JLabel("Ejemplo de JPanel"));
    c.add(p);
    setSize(200 ,200);
    setVisible(true);
 public static void main(String[] args) {
    new Ventana();
```

```
Ejemplo de JPanel
```





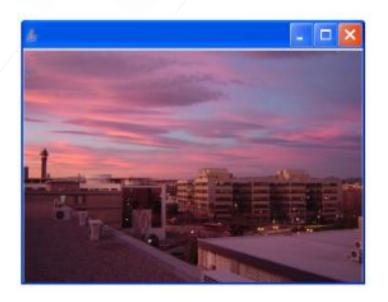






Imagelcon

```
import javax.swing.*;
import javax.swing.event.*;
import java.awt.*;
public class Ventana extends JFrame{
  public Ventana(String fich) {
    Container c = getContentPane();
    c.setLayout(new FlowLayout());
    ImageIcon ii = new ImageIcon(fich);
    c.add(new JLabel("", ii, JLabel.CENTER));
    setSize(650 ,500);
    setVisible(true);
  public static void main(String[] args) {
    new Ventana(args[0]);
```













JTextField

```
import javax.swing.*;
import javax.swing.event. *;
import java.awt.*;
public class Ventana extends JFrame {
 public Ventana() {
    Container c = getContentPane();
    c.setLayout(new FlowLayout());
    JTextField campoTexto = new JTextField(20);
    c.add(new JLabel("Nombre"));
    c.add(campoTexto);
    setSize(350, 200);
    setVisible(true);
 public static void main(String[] args) {
    new Ventana();
```

₫	_33	\times
Nombre		











```
import javax.swing.*;
import javax.swing.event. *;
import java.awt.*;
public class Ventana extends JFrame {
 public Ventana() {
    Container c = getContentPane();
    c.setLayout(new FlowLayout());
    JTextArea area = new JTextArea(8, 20);
    c.add(new JLabel("Observaciones"));
    c.add(area);
    setSize(350, 200);
    setVisible(true);
 public static void main(String[] args) {
    new Ventana();
```











JButton

```
import javax.swing.*;
import javax.swing.event. *;
import java.awt.*;
public class Ventana extends JFrame {
 public Ventana() {
    Container c = getContentPane();
    c.setLayout(new FlowLayout());
    JButton b1 = new JButton("Aceptar");
    JButton b2 = new JButton("Cancelar");
    c.add(b1);
    c.add(b2);
    setSize(350, 200);
    setVisible(true);
 public static void main(String[] args) {
    new Ventana();
```

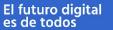








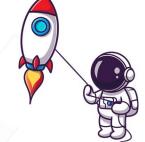




JCheckBox

```
import javax.swing.*;
import javax.swing.event. *;
import java.awt.*;
public class Ventana extends JFrame {
 public Ventana() {
    Container c = getContentPane();
    c.setLayout(new FlowLayout());
    JCheckBox cb = new JCheckBox("Pizarra");
    cb.setFont(new Font("Arial", Font.PLAIN, 20));
    c.add(cb);
    setSize(200, 200);
    setVisible(true);
 public static void main(String[] args) {
    new Ventana();
```







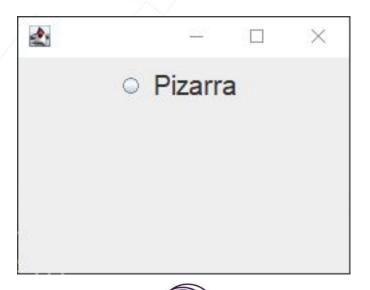






JRadioButton

```
import javax.swing.*;
import javax.swing.event. *;
import java.awt.*;
public class Ventana extends JFrame {
 public Ventana() {
    Container c = getContentPane();
    c.setLayout(new FlowLayout());
    JRadioButton cb = new JRadioButton("Pizarra");
    cb.setFont(new Font("Arial", Font.PLAIN, 20));
    c.add(cb);
    setSize(200, 200);
    setVisible(true);
 public static void main(String[] args) {
    new Ventana();
```



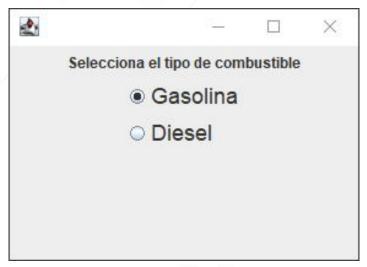






```
import javax.swing*;
import javax.swing.event*;
import java.awt*;
public class Ventana extends JFrame {
 public Ventana() {
   Container c = getContentPane();
   c.setLayout(new FlowLayout());
   c.add(new JLabel("Selecciona el tipo de combustible"));
   Font fuente = new Font ("Arial", Font. PLAIN, 18);
   JRadioButton gas = new JRadioButton("Gasolina");
   gas.setFont(fuente);
   JRadioButton die = new JRadioButton("Diesel");
   die.setFont(fuente);
   // Agrupamos los botones
   ButtonGroup grupo = new ButtonGroup();
   grupo.add(gas);
   grupo.add(die);
   JPanel radioPanel = new JPanel();
   radioPanel.setLayout(new GridLayout(0, 1));
   radioPanel.add(gas);
   radioPanel.add(die);
   c.add(radioPanel);
   setSize(300, 300);
   setVisible(true);
  public static void main(String[] args) {
   new Ventana();
```







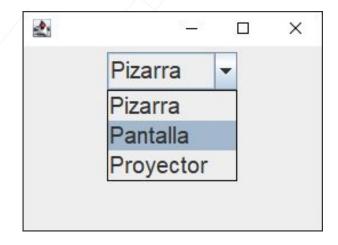






JComboBox

```
import javax.swing. *;
import javax.swing.event. *;
import java.awt.*;
public class Ventana extends JFrame {
  public Ventana() {
    Container c = getContentPane();
    c.setLayout(new FlowLayout());
    JComboBox<String> cb = new JComboBox<>();
    cb.setFont(new Font("Arial", Font.PLAIN, 20));
    cb.addItem("Pizarra");
    cb.addItem("Pantalla");
    cb.addItem("Proyector");
    c.add(cb);
    setSize(200, 200);
    setVisible(true);
  public static void main(String[] args) {
    new Ventana();
```







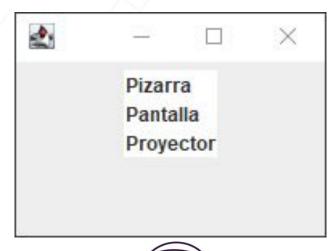






JList

```
import javax.swing.*;
import javax.swing.event. *;
import java.awt.*;
public class Ventana extends JFrame {
 public Ventana() {
    Container c = getContentPane();
    c.setLayout(new FlowLayout());
    String[] datos = { "Pizarra", "Pantalla",
"Proyector" };
    JList<String> lista = new JList<>(datos);
    c.add(lista);
    setSize(200, 200);
    setVisible(true);
 public static void main(String[] args) {
    new Ventana();
```









JOptionPane

- Permite crear nuevos cuadros de diálogo o usar algunos de los más comunes:
 - Message, para informar al usuario sobre algún hecho relevante
 - Confirm, para realizar una pregunta al usuario con las posibilidades básicas de respuesta de Sí, No o Cancelar.
 - Input, para solicitar una entrada del usuario
 - Option, permite crear una ventana personalizada de cualquiera de los tipos anteriores







JOptionPane.showMessageDialog

```
//default title and icon
JOptionPane.showMessageDialog(frame, "Eggs are not supposed to be green.",
                                        "Message", JOptionPane.INFORMATION MESSAGE);
```



//custom title, warning icon

JOptionPane.showMessageDialog(frame, "Eggs are not supposed to be green.", "Inane warning", JOptionPane.WARNING MESSAGE);











JOptionPane.showMessageDialog

```
// custom title, error icon
JOptionPane.showMessageDialog(frame, "Eggs are not supposed to be green.",
                                                   "Inane error", JOptionPane. ERROR MESSAGE);
                                                                 nane error
                                                                     Eggs are not supposed to be green.
                                                                          Aceptar
// custom title, no icon
JOptionPane.showMessageDialog(frame, "Eggs are not supposed to be green.",
                                              "A plain message", JOptionPane.PLAIN MESSAGE);
                       A plain message
                       Eggs are not supposed to be green.
```

Aceptar





JOptionPane.showMessageDialog











JOptionPane.showConfirmDialog

Object[] options = { "Yes, please", "No way!" };
int option = JOptionPane.showOptionDialog(frame, "Would you like green eggs and
ham?", "A Silly Question", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE,

null, options, options[0]);







icon, possibilities, "ham");



JOptionPane.showInputDialog

```
Object[] possibilities = { "ham", "spam", "yam" > };
String s = (String) JOptionPane.showInputDialog(frame, "Complete the sentence:\n"
                 + "\"Green eggs and...\"", "Customized Dialog", JOptionPane.PLAIN MESSAGE,
// If a string was returned, say so.
if ((s != null) && (s.length() > 0)) {
  etiqueta.setText("Green eggs and... " + s + "!");
  return;
// If you're here, the return value was null/empty.
etiqueta.setText("Come on, finish the sentence!");
```







JOptionPane.showOptionDialog

```
// Custom button text
Object[] options = { "Yes, please", "No, thanks", "No eggs, no ham!" };
int option = JOptionPane.showOptionDialog(frame,
```



"Would you like some green eggs to go with that ham?",

"A Silly Question", JOptionPane.YES_NO_CANCEL_OPTION,
JOptionPane.QUESTION MESSAGE, null, options, options[2]);

```
A Silly Question ×

Would you like some green eggs to gowith that ham?

Yes, please No, thanks No eggs, no ham!
```







Valores de retorno

- Si el método showXXXDialog devuelve un entero, los posibles valores de retorno son:
 - JOptionPane.YES_OPTION
 - JOptionPane.NO_OPTION
 - JOptionPane.CANCEL_OPTION
 - JOptionPane.OK_OPTION
 - JOptionPane.CLOSED_OPTION
- En otro caso, devolverá un String con la opción seleccionada (como en los ejemplos que hemos visto)



