

## JFrame

```
public static void main(String[] args) {  
    JFrame jf = new JFrame();  
    jf.setTitle("Tesing");  
    jf.setSize(400, 300);  
    jf.setLocation(400, 300);  
    jf.setVisible(true);  
    jf.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);  
  
}
```

## JDialog

```
public static void main(String[] args) {  
    JFrame jf = new JFrame();  
    jf.setTitle("Tesing");  
    jf.setSize(400, 300);  
    jf.setLocation(400, 300);  
    jf.setVisible(true);  
    jf.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);  
  
    JDialog jd = new JDialog(jf);  
    jd.setTitle("test");  
    jd.setBounds(400, 300, 150, 200);  
    jd.setVisible(true);  
    jd.setDefaultCloseOperation(WindowConstants.DISPOSE_ON_CLOSE);  
  
}
```

## JPanel

```
JButton jb1 = new JButton("btn1");  
JButton jb2 = new JButton("btn2");  
JPanel jp = new JPanel();  
jp.add(jb1);  
jp.add(jb2);  
jf.add(jp);
```

## JButton

```
public static void main(String[] args) {  
    JFrame jf = new JFrame();  
    jf.setTitle("test");  
    jf.setLayout(new FlowLayout());  
    jf.setBounds(400, 300, 300, 400);  
  
    JRadioButton jrb1 = new JRadioButton("T");
```

```

JRadioButton jrb2 = new JRadioButton("F");
ButtonGroup brg = new ButtonGroup();
brg.add(jrb1);
brg.add(jrb2);

jf.add(jrb1);
jf.add(jrb2);

jf.setVisible(true);
jf.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
}

```

## JCheckBox

```

public static void main(String[] args) {
    JFrame jf = new JFrame();
    jf.setTitle("test");
    jf.setLayout(new FlowLayout());
    jf.setBounds(400, 300, 300, 400);

    JCheckBox box1 = new JCheckBox("Sleeping", true);
    JCheckBox box2 = new JCheckBox("Sleeping", false);
    JCheckBox box3 = new JCheckBox("Sleeping", false);
    jf.add(box1);
    jf.add(box2);
    jf.add(box3);

    jf.setVisible(true);
    jf.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
}

```

## JComboBox

```

public static void main(String[] args) {
    JFrame jf = new JFrame();
    jf.setTitle("test");
    jf.setLayout(new FlowLayout());
    jf.setBounds(400, 300, 1000, 1000);

    JComboBox box = new JComboBox();
    box.addItem("---select your educational background");
    box.addItem("university");
    box.addItem("high school");
    box.addItem("junior high school");

    jf.add(box);

    jf.setVisible(true);
    jf.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
}

```

## JMune

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```

public static void main(String[] args) {
    JFrame jf = new JFrame();
    jf.setTitle("test");
    jf.setBounds(400, 300, 300, 400);
    jf.setLayout(new FlowLayout(FlowLayout.CENTER));

    JMenuBar jmb = new JMenuBar();
    JMenu menu1 = new JMenu("menu1");
    JMenu menu2 = new JMenu("menu2");
    JMenu menu3 = new JMenu("menu3");
    JMenuItem item1 = new JMenuItem("item1");
    JMenuItem item2 = new JMenuItem("item2");
    JMenuItem item3 = new JMenuItem("item3");
    JMenuItem item4 = new JMenuItem("item4");
    JMenuItem item5 = new JMenuItem("item5");
    JMenuItem item6 = new JMenuItem("item6");
    menu1.add(item1);
    menu1.add(item2);
    menu1.add(item3);
    menu2.add(item4);
    menu3.add(item5);
    menu3.add(item6);
    jmb.add(menu1);
    jmb.add(menu2);
    jmb.add(menu3);
    jf.add(jmb);

    jf.setVisible(true);
    jf.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
}

```

## JTextField && JPasswordField

```

public static void main(String[] args) {
    JFrame jf = new JFrame();
    jf.setTitle("test");
    jf.setBounds(400, 300, 300, 400);
    jf.setLayout(new FlowLayout(FlowLayout.LEFT));

    JTextField text = new JTextField("input name", 10);
    JLabel j11 = new JLabel("Account");
    jf.add(j11);
    jf.add(text);

    JPasswordField pwd = new JPasswordField("input", 10);
    pwd.setEchoChar('*');
    JLabel j12 = new JLabel("password");
    jf.add(j12);
    jf.add(pwd);

    jf.setVisible(true);
    jf.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
}

```

## JTextArea

```
public static void main(String[] args) {
    JFrame jf = new JFrame();
    jf.setTitle("test");
    jf.setBounds(400, 300, 300, 400);
    jf.setLayout(new FlowLayout(FlowLayout.LEFT));

    JTextArea area = new JTextArea(10, 10);
    area.setLineWrap(true);
    jf.add(area);

    jf.setVisible(true);
    jf.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
}
```

## FlowLayout

## BorderLayout

## GridLayout

```
jf.setLayout(new BorderLayout());

JButton btn1 = new JButton("btn1");
JButton btn2 = new JButton("btn2");
JButton btn3 = new JButton("btn3");
JButton btn4 = new JButton("btn4");
JButton btn5 = new JButton("btn5");

jf.add(btn1, BorderLayout.NORTH);
jf.add(btn2, BorderLayout.SOUTH);
jf.add(btn3, BorderLayout.WEST);
jf.add(btn4, BorderLayout.EAST);
jf.add(btn5, BorderLayout.CENTER);
```

## 事件监听

### 6.1 一个事件模型中有三个对象：事件源，事件，以及监听程序。

事件监听机制：

- A: 事件源 事件发生的地方
- B: 事件 就是要发生的事情
- C: 事件处理 就是针对发生的事情做出的处理方案
- D: 事件监听 就是把事件源和事件关联起来

```
public static void main(String[] args) {
    JFrame jf = new JFrame();
```

```

jff.setTitle("Listener");
jff.setBounds(400, 300, 300, 400);
jff.setLayout(new FlowLayout(FlowLayout.CENTER));

JTextArea area = new JTextArea(10, 18);
area.setLineWrap(true);
jff.add(area);
JButton btn = new JButton("hit house");
jff.add(btn);
btn.addActionListener(new AbstractAction() {
    @Override
    public void actionPerformed(ActionEvent e) {
        area.append("conduct oneself well");
    }
});

jff.setVisible(true);
jff.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
}

```

```

public class Test {
    public static void main(String[] args) {
        JFrame jf = new JFrame( title: "登陆");
        jf.setLayout(new FlowLayout(FlowLayout.LEFT));
        jf.setBounds( x: 460, y: 300, width: 300, height: 200);

        JLabel label1 = new JLabel( text: "账号:");
        JTextField usernameText = new JTextField();
        JLabel label2 = new JLabel( text: "密码:");
        JPasswordField pwdText = new JPasswordField();
        JTextField out = new JTextField("登陆状态");
        JButton button = new JButton( text: "登陆");

        jf.add(label1);
        jf.add(usernameText);
        jf.add(label2);
        jf.add(pwdText);
        jf.add(out);
        jf.add(button);
    }
}

```

```

1、注册驱动
Class.forName("com.mysql.jdbc.Driver");

2、获取链接
jdbc:mysql://localhost:3306/test
connection = DriverManager.getConnection(url, user, password);
3、获取操作数据库的预处理对象
statement = (Statement) connection.createStatement();
4、执行SQL语句
rs = ((java.sql.Statement) statement).executeQuery("select * from test where c_grade>60&&java_grade>60");
5、遍历结果集。封装

6、释放资源

关闭顺序要和声明顺序相反
1.关闭连接对象
2.关闭声明
3.关闭记录集
if(rs != null){
rs.close();
}

```

```

public static void main(String[] args) {
    JFrame jf = new JFrame();
    jf.setTitle("Test");
    jf.setBounds(400, 300, 300, 200);
    jf.setLayout(new FlowLayout(FlowLayout.LEFT));

    JLabel jl1 = new JLabel("count");
    JTextField usernameText = new JTextField("", 22);
    JLabel jl2 = new JLabel("password");
    JPasswordField passwordText = new JPasswordField("", 20);
    JTextField out_ = new JTextField("log status", 26);
    JButton btn = new JButton("Login");

    jf.add(jl1);
    jf.add(usernameText);
    jf.add(jl2);
    jf.add(passwordText);
    jf.add(out_);
    jf.add(btn);

    jf.setVisible(true);
    jf.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
}

```