Applications

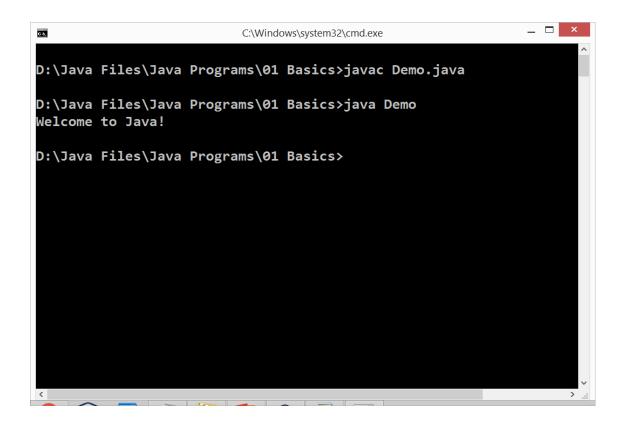
Developing applications like

Console A/P (e.g. Shop billing) → C U I

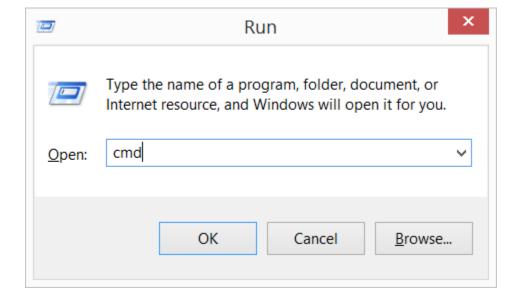
• Windows A/P (e.g. MS-word) \rightarrow G U I

Web A/P (e.g. Gmail, Yahoo)

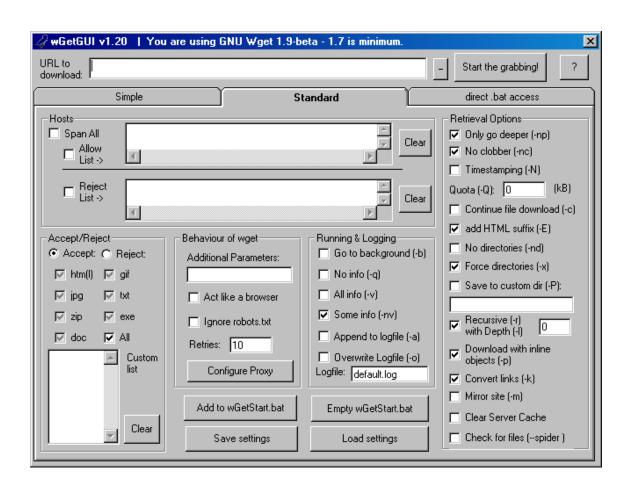
Console Applications







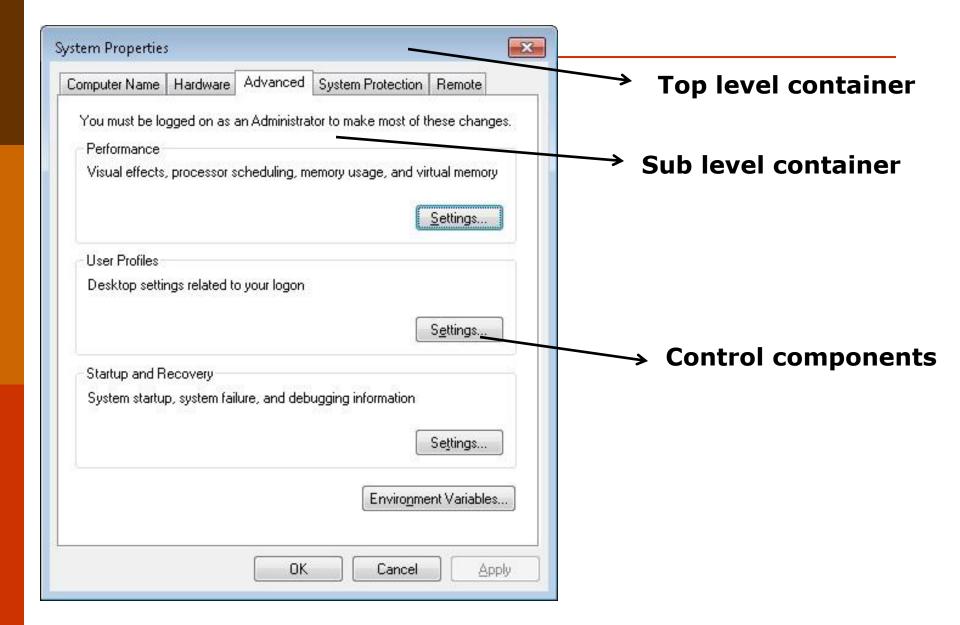
GUI



Windows Applications (GUI)

- AWT
- Event Handling
- Applets
- Swings

Containers

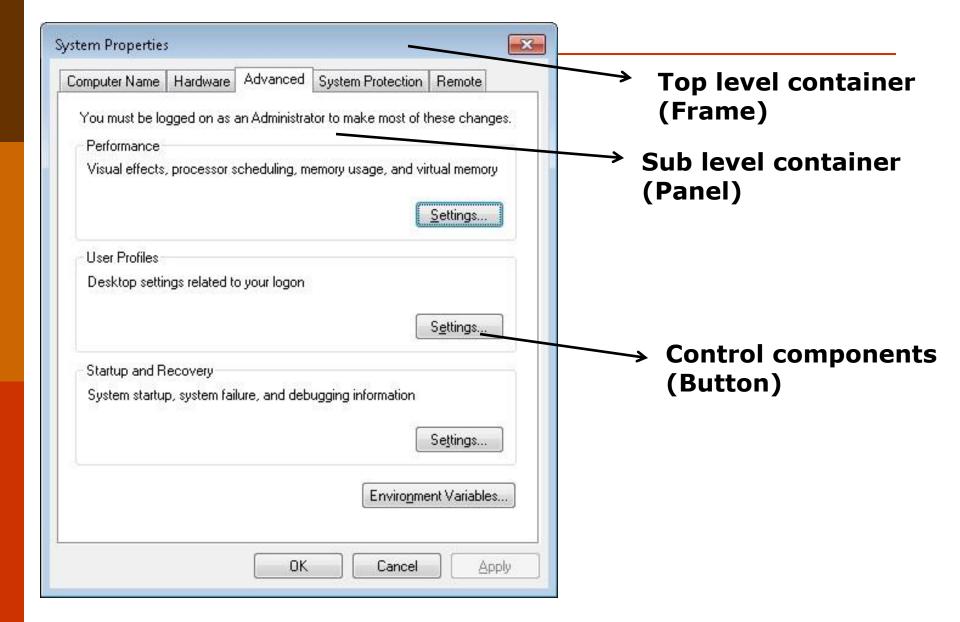


Abstract Window Toolkit (AWT)

Its for developing GUI applications.

```
API java.awt.*;
```

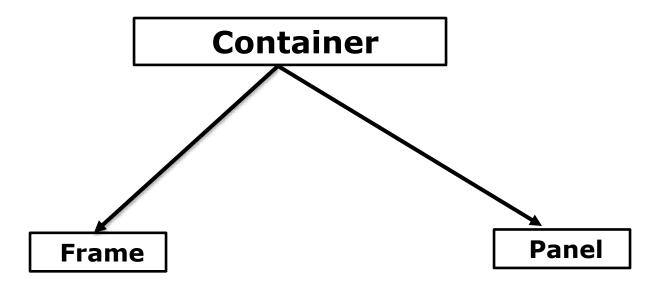
Containers

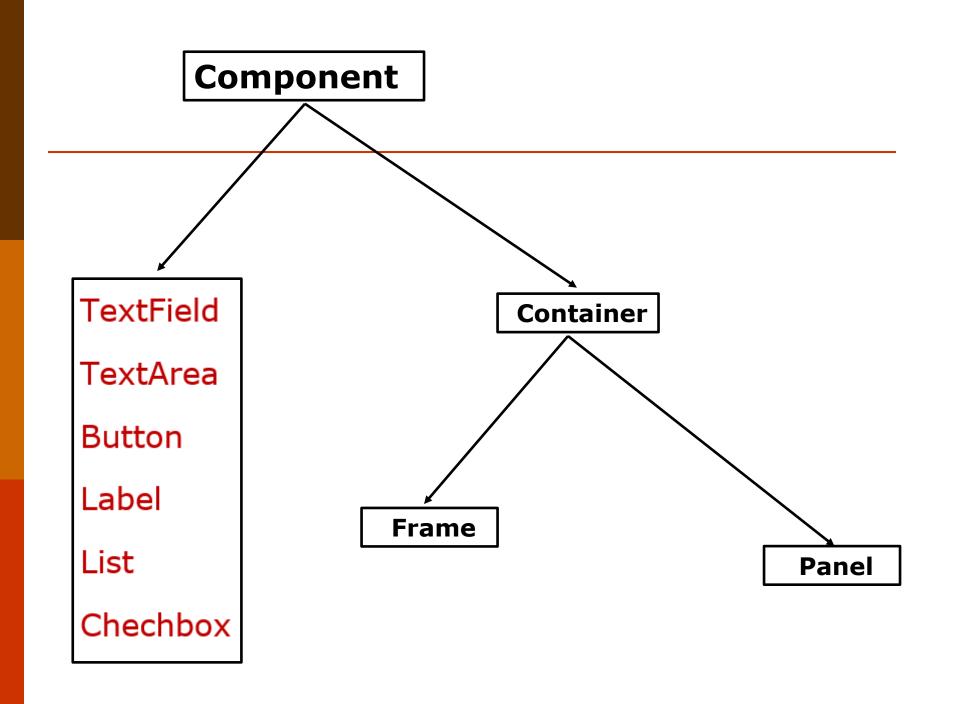


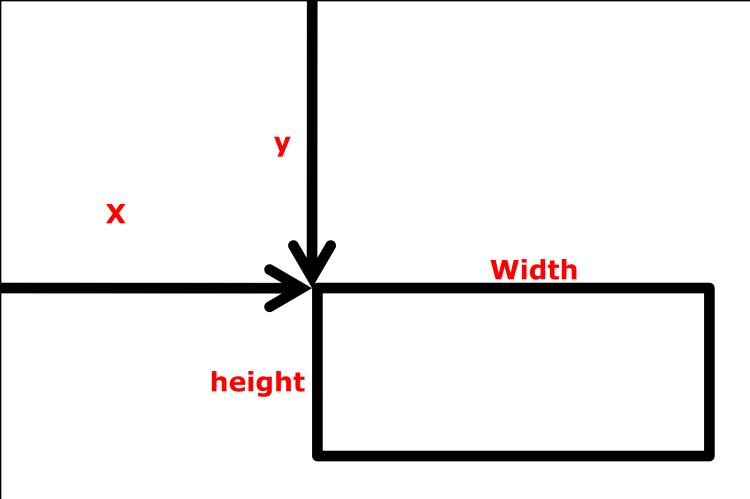
AWT Control components

- TextField
- TextArea
- Button
- Label
- List
- > Chechbox

Class Hierarchy







setBounds(100, 100, 500, 400)

```
import java.awt.*;
class Demo1
 public static void main(String aa[])
      Frame f=new Frame();
      f.setLayout(new FlowLayout());
      f.setSize(400,300);
      f.setVisible(true);
```

```
import java.awt.*;
class Demo1 extends Frame
 Demo1()
      setLayout(new FlowLayout());
      setSize(400,300);
      setVisible(true);
  public static void main(String aa[])
     Demo1 ob=new Demo1();
```

Graphics

Component

_ _ _ _ _ _ _ _ _ _ _ _

```
void paint(Graphics)
```

Graphics getGraphics();