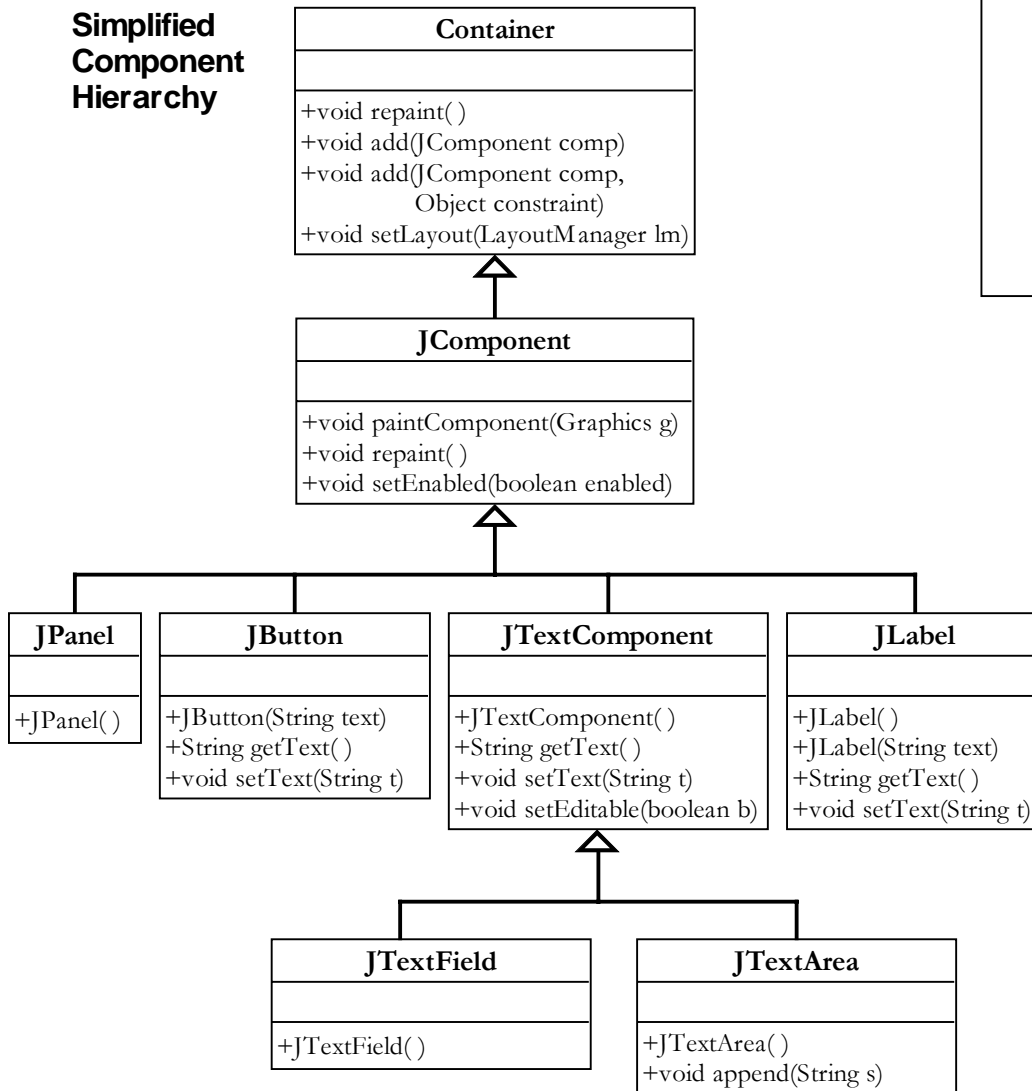


CS132 Winter 2005 Final Exam Reference Booklet

Selected GUI Documentation

**Simplified
Component
Hierarchy**



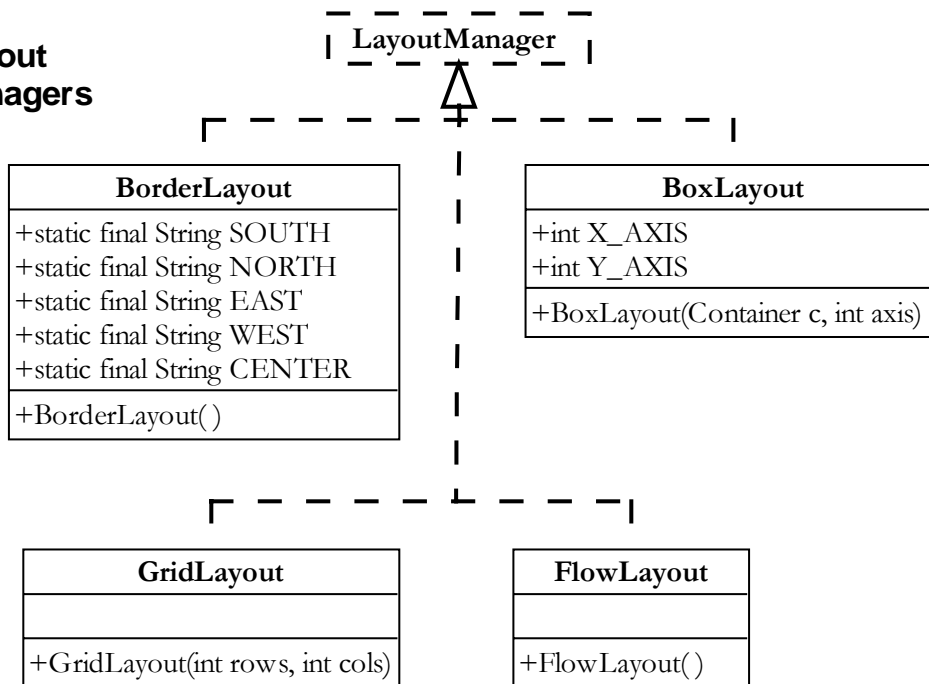
UML Notes

- + means public
- means private



means implements
an interface

Layout Managers



EventListeners

ActionListener

```
+void actionPerformed(ActionEvent e)
```

FocusListener

```
+void focusGained(FocusEvent e)
```

```
+void focusLost(FocusEvent e)
```

MouseListener

```
+void mouseClicked(MouseEvent e)
```

```
+void mouseEntered(MouseEvent e)
```

```
+void mouseExited(MouseEvent e)
```

```
+void mousePressed(MouseEvent e)
```

```
+void mouseReleased(MouseEvent e)
```

Documentation for the “Types, Inheritance, Polymorphism and Interfaces” Question on pages 17 – 19

<pre>public class Parent extends Object { private double a; public Parent(double x) { super(); this.a = x; } public void silly(double x) { this.a = this.a * x; } }</pre>	<pre>public interface AnInterface { public void nonsense(double x); }</pre>
<pre>public class ChildA extends Parent { private double b; public ChildA() { super(10.0); this.b = 10.0; } public void nonsense(double x) { this.b = x + 999.0; } public void silly(double y) { double z = y * this.b; super.silly(z); } }</pre>	<pre>public class ChildB extends Parent implements AnInterface { private double b; public ChildB(double x, double y) { super(x * 2.0); this.b = y; } public void nonsense(double z) { System.out.println(this.b); } public void foo(double w) { this.silly(w); } }</pre>
<pre>public class GrandChildA extends ChildA implements AnInterface { public GrandChildA() { super(); System.out.println("I Love Java"); } }</pre>	<pre>public class GrandChildB extends ChildB implements AnInterface { public GrandChildB(double x, double y) { super(x, y); } public void nonsense(double z) { System.out.println("CS 134 is next"); } public void silly(double w) { System.out.println("Summer is almost here"); } }</pre>