Class java.awt.FlowLayout

```
java.lang.Object
   |
   +----java.awt.FlowLayout
```

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public class **FlowLayout**
extends Object
implements LayoutManager

Flow layout is used to layout buttons in a panel. It will arrange buttons left to right until no more buttons fit on the same line. Each line is centered.

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The right alignment variable.
o **LEFT**
The left alignment variable.
o **RIGHT**
The right alignment variable.

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Constructs a new Flow Layout with a centered alignment.
o **FlowLayout**(int)
Constructs a new Flow Layout with the specified alignment.
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Constructs a new Flow Layout with the specified alignment and gap values.

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Lays out the container.
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Returns the preferred dimensions for this layout given the components in the specified target container.
o **removeLayoutComponent**(Component)
Removes the specified component from the layout.
o **toString**()
Returns the String representation of this FlowLayout's values.

Variables

o **LEFT**

```
public final static int LEFT
```

The left alignment variable.

o **CENTER**

```
public final static int CENTER
```

The right alignment variable.

o **RIGHT**

```
public final static int RIGHT
```

The right alignment variable.

Constructors

o **FlowLayout**

```
public FlowLayout()
```

Constructs a new Flow Layout with a centered alignment.

o **FlowLayout**

```
public FlowLayout(int align)
```

Constructs a new Flow Layout with the specified alignment.

Parameters:

align – the alignment value

o **FlowLayout**

```
public FlowLayout(int align,
                  int hgap,
                  int vgap)
```

Constructs a new Flow Layout with the specified alignment and gap values.

Parameters:

align – the alignment value
hgap – the horizontal gap variable
vgap – the vertical gap variable

Methods

o **addLayoutComponent**

```
public void addLayoutComponent(String name,
                               Component comp)
```

Adds the specified component to the layout. Does not apply.

Parameters:

name – the name of the component
comp – the the component to be added

o **removeLayoutComponent**

```
public void removeLayoutComponent(Component comp)
```

Removes the specified component from the layout. Does not apply.

Parameters:

comp – the component to remove

o **preferredLayoutSize**

```
public Dimension preferredLayoutSize(Container target)
```

Returns the preferred dimensions for this layout given the components in the specified target container.

Parameters:

target – the component which needs to be laid out

See Also:

Container, minimumSize

o **minimumLayoutSize**

```
public Dimension minimumLayoutSize(Container target)
```

Returns the minimum dimensions needed to layout the components contained in the specified target container.

Parameters:

target – the component which needs to be laid out

See Also:

preferredSize

o **layoutContainer**

```
public void layoutContainer(Container target)
```

Lays out the container. This method will actually reshape the components in target in order to satisfy the constraints of the BorderLayout object.

Parameters:

target – the specified component being laid out.

See Also:

Container

o **toString**

```
public String toString()
```

Returns the String representation of this FlowLayout's values.

Overrides:

toString in class Object