

# Class `java.awt.FlowLayout`

`java.lang.Object`

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+----`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.

## Version:

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## Author:

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## Variable Index

### o **CENTER**

The right alignment variable.

### o **LEFT**

The left alignment variable.

### o **RIGHT**

The right alignment variable.

## Constructor Index

### o **FlowLayout()**

Constructs a new Flow Layout with a centered alignment.

### o **FlowLayout(int)**

Constructs a new Flow Layout with the specified alignment.

### o **FlowLayout(int, int, int)**

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

# Method Index

- o **addLayoutComponent**(String, Component)  
Adds the specified component to the layout.
- o **layoutContainer**(Container)  
Lays out the container.
- o **minimumLayoutSize**(Container)  
Returns the minimum dimensions needed to layout the components contained in the specified target container.
- o **preferredLayoutSize**(Container)  
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

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