

Class `java.awt.GridLayout`

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

```
public class GridLayout
  extends Object
  implements LayoutManager
```

A layout manager for a container that lays out grids.

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Author:

Constructor Index

- o **`GridLayout(int, int)`**
Creates a grid layout with the specified rows and specified columns.
- o **`GridLayout(int, int, int, int)`**
Creates a grid layout with the specified rows, columns, horizontal gap, and vertical gap.

Method Index

- o **`addLayoutComponent(String, Component)`**
Adds the specified component with the specified name to the layout.
- o **`layoutContainer(Container)`**
Lays out the container in the specified panel.
- o **`minimumLayoutSize(Container)`**
Returns the minimum dimensions needed to layout the components contained in the specified panel.
- o **`preferredLayoutSize(Container)`**
Returns the preferred dimensions for this layout given the components in the specified panel.
- o **`removeLayoutComponent(Component)`**

Removes the specified component from the layout.

o **toString()**

Returns the String representation of this GridLayout's values.

Constructors

o **GridLayout**

```
public GridLayout(int rows,  
                 int cols)
```

Creates a grid layout with the specified rows and specified columns.

Parameters:

rows – the rows

cols – the columns

o **GridLayout**

```
public GridLayout(int rows,  
                 int cols,  
                 int hgap,  
                 int vgap)
```

Creates a grid layout with the specified rows, columns, horizontal gap, and vertical gap.

Parameters:

rows – the rows; zero means 'any number.'

cols – the columns; zero means 'any number.' Only one of 'rows' and 'cols' can be zero, not both.

hgap – the horizontal gap variable

vgap – the vertical gap variable

Throws: IllegalArgumentException

If the rows and columns are invalid.

Methods

o **addLayoutComponent**

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

Adds the specified component with the specified name to the layout.

Parameters:

name – the name of the component

comp – 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 be removed

o preferredLayoutSize

```
public Dimension preferredLayoutSize(Container parent)
```

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

Parameters:

parent – the component which needs to be laid out

See Also:

[minimumSize](#)

o minimumLayoutSize

```
public Dimension minimumLayoutSize(Container parent)
```

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

Parameters:

parent – the component which needs to be laid out

See Also:

[preferredSize](#)

o layoutContainer

```
public void layoutContainer(Container parent)
```

Lays out the container in the specified panel.

Parameters:

parent – the specified component being laid out

See Also:

[Container](#)

o toString

```
public String toString()
```

Returns the String representation of this GridLayout's values.

Overrides:

[toString](#) in class [Object](#)