| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/GroupLayout.Group.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/swing/GroupLayout.Alignment.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/GroupLayout.ParallelGroup.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/GroupLayout.Group.html)    [**NO FRAMES**](http://docs.google.com/GroupLayout.Group.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

## **javax.swing**

Class GroupLayout.Group

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.swing.GroupLayout.Group**

**Direct Known Subclasses:** [GroupLayout.ParallelGroup](http://docs.google.com/javax/swing/GroupLayout.ParallelGroup.html), [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) **Enclosing class:**[GroupLayout](http://docs.google.com/javax/swing/GroupLayout.html)

public abstract class **GroupLayout.Group**extends [Object](http://docs.google.com/java/lang/Object.html)

Group provides the basis for the two types of operations supported by GroupLayout: laying out components one after another ([SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html)) or aligned ([ParallelGroup](http://docs.google.com/javax/swing/GroupLayout.ParallelGroup.html)). Group and its subclasses have no public constructor; to create one use one of createSequentialGroup or createParallelGroup. Additionally, taking a Group created from one GroupLayout and using it with another will produce undefined results.

Various methods in Group and its subclasses allow you to explicitly specify the range. The arguments to these methods can take two forms, either a value greater than or equal to 0, or one of DEFAULT\_SIZE or PREFERRED\_SIZE. A value greater than or equal to 0 indicates a specific size. DEFAULT\_SIZE indicates the corresponding size from the component should be used. For example, if DEFAULT\_SIZE is passed as the minimum size argument, the minimum size is obtained from invoking getMinimumSize on the component. Likewise, PREFERRED\_SIZE indicates the value from getPreferredSize should be used. The following example adds myComponent to group with specific values for the range. That is, the minimum is explicitly specified as 100, preferred as 200, and maximum as 300.

group.addComponent(myComponent, 100, 200, 300);

The following example adds myComponent to group using a combination of the forms. The minimum size is forced to be the same as the preferred size, the preferred size is determined by using myComponent.getPreferredSize and the maximum is determined by invoking getMaximumSize on the component.

group.addComponent(myComponent, GroupLayout.PREFERRED\_SIZE,  
 GroupLayout.PREFERRED\_SIZE, GroupLayout.DEFAULT\_SIZE);

Unless otherwise specified all the methods of Group and its subclasses that allow you to specify a range throw an IllegalArgumentException if passed an invalid range. An invalid range is one in which any of the values are < 0 and not one of PREFERRED\_SIZE or DEFAULT\_SIZE, or the following is not met (for specific values): min <= pref <= max.

Similarly any methods that take a Component throw a NullPointerException if passed null and any methods that take a Group throw an IllegalArgumentException if passed null.

**Since:** 1.6 **See Also:**[GroupLayout.createSequentialGroup()](http://docs.google.com/javax/swing/GroupLayout.html#createSequentialGroup()), [GroupLayout.createParallelGroup()](http://docs.google.com/javax/swing/GroupLayout.html#createParallelGroup())

| **Method Summary** | |
| --- | --- |
| [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) | [**addComponent**](http://docs.google.com/javax/swing/GroupLayout.Group.html#addComponent(java.awt.Component))([Component](http://docs.google.com/java/awt/Component.html) component)            Adds a Component to this Group. |
| [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) | [**addComponent**](http://docs.google.com/javax/swing/GroupLayout.Group.html#addComponent(java.awt.Component,%20int,%20int,%20int))([Component](http://docs.google.com/java/awt/Component.html) component, int min, int pref, int max)            Adds a Component to this Group with the specified size. |
| [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) | [**addGap**](http://docs.google.com/javax/swing/GroupLayout.Group.html#addGap(int))(int size)            Adds a rigid gap to this Group. |
| [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) | [**addGap**](http://docs.google.com/javax/swing/GroupLayout.Group.html#addGap(int,%20int,%20int))(int min, int pref, int max)            Adds a gap to this Group with the specified size. |
| [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) | [**addGroup**](http://docs.google.com/javax/swing/GroupLayout.Group.html#addGroup(javax.swing.GroupLayout.Group))([GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) group)            Adds a Group to this Group. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Method Detail** |
| --- |

### addGroup

public [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **addGroup**([GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) group)

Adds a Group to this Group.

**Parameters:**group - the Group to add **Returns:**this Group

### addComponent

public [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **addComponent**([Component](http://docs.google.com/java/awt/Component.html) component)

Adds a Component to this Group.

**Parameters:**component - the Component to add **Returns:**this Group

### addComponent

public [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **addComponent**([Component](http://docs.google.com/java/awt/Component.html) component,  
 int min,  
 int pref,  
 int max)

Adds a Component to this Group with the specified size.

**Parameters:**component - the Component to addmin - the minimum size or one of DEFAULT\_SIZE or PREFERRED\_SIZEpref - the preferred size or one of DEFAULT\_SIZE or PREFERRED\_SIZEmax - the maximum size or one of DEFAULT\_SIZE or PREFERRED\_SIZE **Returns:**this Group

### addGap

public [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **addGap**(int size)

Adds a rigid gap to this Group.

**Parameters:**size - the size of the gap **Returns:**this Group **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if size is less than 0

### addGap

public [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **addGap**(int min,  
 int pref,  
 int max)

Adds a gap to this Group with the specified size.

**Parameters:**min - the minimum size of the gappref - the preferred size of the gapmax - the maximum size of the gap **Returns:**this Group **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if any of the values are less than 0

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/GroupLayout.Group.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/swing/GroupLayout.Alignment.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/GroupLayout.ParallelGroup.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/GroupLayout.Group.html)    [**NO FRAMES**](http://docs.google.com/GroupLayout.Group.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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