| | [**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.SequentialGroup.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.ParallelGroup.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/Icon.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/GroupLayout.SequentialGroup.html)    [**NO FRAMES**](http://docs.google.com/GroupLayout.SequentialGroup.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.SequentialGroup

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

**Enclosing class:**[GroupLayout](http://docs.google.com/javax/swing/GroupLayout.html)

public class **GroupLayout.SequentialGroup**extends [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html)

A Group that positions and sizes its elements sequentially, one after another. This class has no public constructor, use the createSequentialGroup method to create one.

In order to align a SequentialGroup along the baseline of a baseline aligned ParallelGroup you need to specify which of the elements of the SequentialGroup is used to determine the baseline. The element used to calculate the baseline is specified using one of the add methods that take a boolean. The last element added with a value of true for useAsBaseline is used to calculate the baseline.

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

| **Method Summary** | |
| --- | --- |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addComponent**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addComponent(boolean,%20java.awt.Component))(boolean useAsBaseline, [Component](http://docs.google.com/java/awt/Component.html) component)            Adds a Component to this Group. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addComponent**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addComponent(boolean,%20java.awt.Component,%20int,%20int,%20int))(boolean useAsBaseline, [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.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addComponent**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addComponent(java.awt.Component))([Component](http://docs.google.com/java/awt/Component.html) component)            Adds a Component to this Group. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addComponent**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.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.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addContainerGap**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addContainerGap())()            Adds an element representing the preferred gap between an edge the container and components that touch the border of the container. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addContainerGap**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addContainerGap(int,%20int))(int pref, int max)            Adds an element representing the preferred gap between one edge of the container and the next or previous Component with the specified size. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addGap**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addGap(int))(int size)            Adds a rigid gap to this Group. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addGap**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addGap(int,%20int,%20int))(int min, int pref, int max)            Adds a gap to this Group with the specified size. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addGroup**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addGroup(boolean,%20javax.swing.GroupLayout.Group))(boolean useAsBaseline, [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) group)            Adds a Group to this Group. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addGroup**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addGroup(javax.swing.GroupLayout.Group))([GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) group)            Adds a Group to this Group. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addPreferredGap**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addPreferredGap(javax.swing.JComponent,%20javax.swing.JComponent,%20javax.swing.LayoutStyle.ComponentPlacement))([JComponent](http://docs.google.com/javax/swing/JComponent.html) comp1, [JComponent](http://docs.google.com/javax/swing/JComponent.html) comp2, [LayoutStyle.ComponentPlacement](http://docs.google.com/javax/swing/LayoutStyle.ComponentPlacement.html) type)            Adds an element representing the preferred gap between two components. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addPreferredGap**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addPreferredGap(javax.swing.JComponent,%20javax.swing.JComponent,%20javax.swing.LayoutStyle.ComponentPlacement,%20int,%20int))([JComponent](http://docs.google.com/javax/swing/JComponent.html) comp1, [JComponent](http://docs.google.com/javax/swing/JComponent.html) comp2, [LayoutStyle.ComponentPlacement](http://docs.google.com/javax/swing/LayoutStyle.ComponentPlacement.html) type, int pref, int max)            Adds an element representing the preferred gap between two components. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addPreferredGap**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement))([LayoutStyle.ComponentPlacement](http://docs.google.com/javax/swing/LayoutStyle.ComponentPlacement.html) type)            Adds an element representing the preferred gap between the nearest components. |
| [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) | [**addPreferredGap**](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html#addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement,%20int,%20int))([LayoutStyle.ComponentPlacement](http://docs.google.com/javax/swing/LayoutStyle.ComponentPlacement.html) type, int pref, int max)            Adds an element representing the preferred gap between the nearest components. |

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

Adds a Group to this Group.

**Overrides:**[addGroup](http://docs.google.com/javax/swing/GroupLayout.Group.html#addGroup(javax.swing.GroupLayout.Group)) in class [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **Parameters:**group - the Group to add **Returns:**this Group

### addGroup

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

Adds a Group to this Group.

**Parameters:**group - the Group to adduseAsBaseline - whether the specified Group should be used to calculate the baseline for this Group **Returns:**this Group

### addComponent

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

Adds a Component to this Group.

**Overrides:**[addComponent](http://docs.google.com/javax/swing/GroupLayout.Group.html#addComponent(java.awt.Component)) in class [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **Parameters:**component - the Component to add **Returns:**this Group

### addComponent

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

Adds a Component to this Group.

**Parameters:**useAsBaseline - whether the specified Component should be used to calculate the baseline for this Groupcomponent - the Component to add **Returns:**this Group

### addComponent

public [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.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.

**Overrides:**[addComponent](http://docs.google.com/javax/swing/GroupLayout.Group.html#addComponent(java.awt.Component,%20int,%20int,%20int)) in class [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **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

### addComponent

public [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) **addComponent**(boolean useAsBaseline,  
 [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:**useAsBaseline - whether the specified Component should be used to calculate the baseline for this Groupcomponent - 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.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) **addGap**(int size)

Adds a rigid gap to this Group.

**Overrides:**[addGap](http://docs.google.com/javax/swing/GroupLayout.Group.html#addGap(int)) in class [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **Parameters:**size - the size of the gap **Returns:**this Group

### addGap

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

Adds a gap to this Group with the specified size.

**Overrides:**[addGap](http://docs.google.com/javax/swing/GroupLayout.Group.html#addGap(int,%20int,%20int)) in class [GroupLayout.Group](http://docs.google.com/javax/swing/GroupLayout.Group.html) **Parameters:**min - the minimum size of the gappref - the preferred size of the gapmax - the maximum size of the gap **Returns:**this Group

### addPreferredGap

public [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) **addPreferredGap**([JComponent](http://docs.google.com/javax/swing/JComponent.html) comp1,  
 [JComponent](http://docs.google.com/javax/swing/JComponent.html) comp2,  
 [LayoutStyle.ComponentPlacement](http://docs.google.com/javax/swing/LayoutStyle.ComponentPlacement.html) type)

Adds an element representing the preferred gap between two components. The element created to represent the gap is not resizable.

**Parameters:**comp1 - the first componentcomp2 - the second componenttype - the type of gap; one of the constants defined by LayoutStyle **Returns:**this SequentialGroup **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if type, comp1 or comp2 is null**See Also:**[LayoutStyle](http://docs.google.com/javax/swing/LayoutStyle.html)

### addPreferredGap

public [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) **addPreferredGap**([JComponent](http://docs.google.com/javax/swing/JComponent.html) comp1,  
 [JComponent](http://docs.google.com/javax/swing/JComponent.html) comp2,  
 [LayoutStyle.ComponentPlacement](http://docs.google.com/javax/swing/LayoutStyle.ComponentPlacement.html) type,  
 int pref,  
 int max)

Adds an element representing the preferred gap between two components.

**Parameters:**comp1 - the first componentcomp2 - the second componenttype - the type of gappref - the preferred size of the grap; one of DEFAULT\_SIZE or a value >= 0max - the maximum size of the gap; one of DEFAULT\_SIZE, PREFERRED\_SIZE or a value >= 0 **Returns:**this SequentialGroup **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if type, comp1 or comp2 is null**See Also:**[LayoutStyle](http://docs.google.com/javax/swing/LayoutStyle.html)

### addPreferredGap

public [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) **addPreferredGap**([LayoutStyle.ComponentPlacement](http://docs.google.com/javax/swing/LayoutStyle.ComponentPlacement.html) type)

Adds an element representing the preferred gap between the nearest components. During layout, neighboring components are found, and the size of the added gap is set based on the preferred gap between the components. If no neighboring components are found the gap has a size of 0.

The element created to represent the gap is not resizable.

**Parameters:**type - the type of gap; one of LayoutStyle.ComponentPlacement.RELATED or LayoutStyle.ComponentPlacement.UNRELATED **Returns:**this SequentialGroup **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if type is not one of LayoutStyle.ComponentPlacement.RELATED or LayoutStyle.ComponentPlacement.UNRELATED**See Also:**[LayoutStyle](http://docs.google.com/javax/swing/LayoutStyle.html)

### addPreferredGap

public [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) **addPreferredGap**([LayoutStyle.ComponentPlacement](http://docs.google.com/javax/swing/LayoutStyle.ComponentPlacement.html) type,  
 int pref,  
 int max)

Adds an element representing the preferred gap between the nearest components. During layout, neighboring components are found, and the minimum of this gap is set based on the size of the preferred gap between the neighboring components. If no neighboring components are found the minimum size is set to 0.

**Parameters:**type - the type of gap; one of LayoutStyle.ComponentPlacement.RELATED or LayoutStyle.ComponentPlacement.UNRELATEDpref - the preferred size of the grap; one of DEFAULT\_SIZE or a value >= 0max - the maximum size of the gap; one of DEFAULT\_SIZE, PREFERRED\_SIZE or a value >= 0 **Returns:**this SequentialGroup **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if type is not one of LayoutStyle.ComponentPlacement.RELATED or LayoutStyle.ComponentPlacement.UNRELATED**See Also:**[LayoutStyle](http://docs.google.com/javax/swing/LayoutStyle.html)

### addContainerGap

public [GroupLayout.SequentialGroup](http://docs.google.com/javax/swing/GroupLayout.SequentialGroup.html) **addContainerGap**()

Adds an element representing the preferred gap between an edge the container and components that touch the border of the container. This has no effect if the added gap does not touch an edge of the parent container.

The element created to represent the gap is not resizable.

**Returns:**this SequentialGroup

### addContainerGap

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

Adds an element representing the preferred gap between one edge of the container and the next or previous Component with the specified size. This has no effect if the next or previous element is not a Component and does not touch one edge of the parent container.

**Parameters:**pref - the preferred size; one of DEFAULT\_SIZE or a value >= 0max - the maximum size; one of DEFAULT\_SIZE, PREFERRED\_SIZE or a value >= 0 **Returns:**this SequentialGroup

| | [**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.SequentialGroup.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.ParallelGroup.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/Icon.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/GroupLayout.SequentialGroup.html)    [**NO FRAMES**](http://docs.google.com/GroupLayout.SequentialGroup.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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