| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MultiViewportUI.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/plaf/multi/MultiTreeUI.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/multi/MultiViewportUI.html)    [**NO FRAMES**](http://docs.google.com/MultiViewportUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

## **javax.swing.plaf.multi**

Class MultiViewportUI

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.swing.plaf.ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html)  
 [javax.swing.plaf.ViewportUI](http://docs.google.com/javax/swing/plaf/ViewportUI.html)  
 **javax.swing.plaf.multi.MultiViewportUI**

public class **MultiViewportUI**extends [ViewportUI](http://docs.google.com/javax/swing/plaf/ViewportUI.html)

A multiplexing UI used to combine ViewportUIs.

This file was automatically generated by AutoMulti.

| **Field Summary** | |
| --- | --- |
| protected  [Vector](http://docs.google.com/java/util/Vector.html) | [**uis**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#uis)            The vector containing the real UIs. |

| **Constructor Summary** | |
| --- | --- |
| [**MultiViewportUI**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#MultiViewportUI())() |

| **Method Summary** | |
| --- | --- |
| boolean | [**contains**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#contains(javax.swing.JComponent,%20int,%20int))([JComponent](http://docs.google.com/javax/swing/JComponent.html) a, int b, int c)            Invokes the contains method on each UI handled by this object. |
| static [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) | [**createUI**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#createUI(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)            Returns a multiplexing UI instance if any of the auxiliary LookAndFeels supports this UI. |
| [Accessible](http://docs.google.com/javax/accessibility/Accessible.html) | [**getAccessibleChild**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#getAccessibleChild(javax.swing.JComponent,%20int))([JComponent](http://docs.google.com/javax/swing/JComponent.html) a, int b)            Invokes the getAccessibleChild method on each UI handled by this object. |
| int | [**getAccessibleChildrenCount**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#getAccessibleChildrenCount(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)            Invokes the getAccessibleChildrenCount method on each UI handled by this object. |
| [Dimension](http://docs.google.com/java/awt/Dimension.html) | [**getMaximumSize**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#getMaximumSize(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)            Invokes the getMaximumSize method on each UI handled by this object. |
| [Dimension](http://docs.google.com/java/awt/Dimension.html) | [**getMinimumSize**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#getMinimumSize(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)            Invokes the getMinimumSize method on each UI handled by this object. |
| [Dimension](http://docs.google.com/java/awt/Dimension.html) | [**getPreferredSize**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#getPreferredSize(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)            Invokes the getPreferredSize method on each UI handled by this object. |
| [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html)[] | [**getUIs**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#getUIs())()            Returns the list of UIs associated with this multiplexing UI. |
| void | [**installUI**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#installUI(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)            Invokes the installUI method on each UI handled by this object. |
| void | [**paint**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent))([Graphics](http://docs.google.com/java/awt/Graphics.html) a, [JComponent](http://docs.google.com/javax/swing/JComponent.html) b)            Invokes the paint method on each UI handled by this object. |
| void | [**uninstallUI**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#uninstallUI(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)            Invokes the uninstallUI method on each UI handled by this object. |
| void | [**update**](http://docs.google.com/javax/swing/plaf/multi/MultiViewportUI.html#update(java.awt.Graphics,%20javax.swing.JComponent))([Graphics](http://docs.google.com/java/awt/Graphics.html) a, [JComponent](http://docs.google.com/javax/swing/JComponent.html) b)            Invokes the update method on each UI handled by this object. |

| **Methods inherited from class javax.swing.plaf.**[**ComponentUI**](http://docs.google.com/javax/swing/plaf/ComponentUI.html) |
| --- |
| [getBaseline](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getBaseline(javax.swing.JComponent,%20int,%20int)), [getBaselineResizeBehavior](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getBaselineResizeBehavior(javax.swing.JComponent)) |

| **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)) |

| **Field Detail** |
| --- |

### uis

protected [Vector](http://docs.google.com/java/util/Vector.html) **uis**

The vector containing the real UIs. This is populated in the call to createUI, and can be obtained by calling the getUIs method. The first element is guaranteed to be the real UI obtained from the default look and feel.

| **Constructor Detail** |
| --- |

### MultiViewportUI

public **MultiViewportUI**()

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

### getUIs

public [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html)[] **getUIs**()

Returns the list of UIs associated with this multiplexing UI. This allows processing of the UIs by an application aware of multiplexing UIs on components.

### contains

public boolean **contains**([JComponent](http://docs.google.com/javax/swing/JComponent.html) a,  
 int b,  
 int c)

Invokes the contains method on each UI handled by this object.

**Overrides:**[contains](http://docs.google.com/javax/swing/plaf/ComponentUI.html#contains(javax.swing.JComponent,%20int,%20int)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**a - the component where the *x,y* location is being queried; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple componentsb - the *x* coordinate of the pointc - the *y* coordinate of the point **Returns:**the value obtained from the first UI, which is the UI obtained from the default LookAndFeel**See Also:**[JComponent.contains(int, int)](http://docs.google.com/javax/swing/JComponent.html#contains(int,%20int)), [Component.contains(int, int)](http://docs.google.com/java/awt/Component.html#contains(int,%20int))

### update

public void **update**([Graphics](http://docs.google.com/java/awt/Graphics.html) a,  
 [JComponent](http://docs.google.com/javax/swing/JComponent.html) b)

Invokes the update method on each UI handled by this object.

**Overrides:**[update](http://docs.google.com/javax/swing/plaf/ComponentUI.html#update(java.awt.Graphics,%20javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**a - the Graphics context in which to paintb - the component being painted; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components**See Also:**[ComponentUI.paint(java.awt.Graphics, javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent)), [JComponent.paintComponent(java.awt.Graphics)](http://docs.google.com/javax/swing/JComponent.html#paintComponent(java.awt.Graphics))

### createUI

public static [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **createUI**([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)

Returns a multiplexing UI instance if any of the auxiliary LookAndFeels supports this UI. Otherwise, just returns the UI object obtained from the default LookAndFeel.

### installUI

public void **installUI**([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)

Invokes the installUI method on each UI handled by this object.

**Overrides:**[installUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html#installUI(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**a - the component where this UI delegate is being installed**See Also:**[ComponentUI.uninstallUI(javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#uninstallUI(javax.swing.JComponent)), [JComponent.setUI(javax.swing.plaf.ComponentUI)](http://docs.google.com/javax/swing/JComponent.html#setUI(javax.swing.plaf.ComponentUI)), [JComponent.updateUI()](http://docs.google.com/javax/swing/JComponent.html#updateUI())

### uninstallUI

public void **uninstallUI**([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)

Invokes the uninstallUI method on each UI handled by this object.

**Overrides:**[uninstallUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html#uninstallUI(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**a - the component from which this UI delegate is being removed; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components**See Also:**[ComponentUI.installUI(javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#installUI(javax.swing.JComponent)), [JComponent.updateUI()](http://docs.google.com/javax/swing/JComponent.html#updateUI())

### paint

public void **paint**([Graphics](http://docs.google.com/java/awt/Graphics.html) a,  
 [JComponent](http://docs.google.com/javax/swing/JComponent.html) b)

Invokes the paint method on each UI handled by this object.

**Overrides:**[paint](http://docs.google.com/javax/swing/plaf/ComponentUI.html#paint(java.awt.Graphics,%20javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**a - the Graphics context in which to paintb - the component being painted; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components**See Also:**[ComponentUI.update(java.awt.Graphics, javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#update(java.awt.Graphics,%20javax.swing.JComponent))

### getPreferredSize

public [Dimension](http://docs.google.com/java/awt/Dimension.html) **getPreferredSize**([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)

Invokes the getPreferredSize method on each UI handled by this object.

**Overrides:**[getPreferredSize](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getPreferredSize(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**a - the component whose preferred size is being queried; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components **Returns:**the value obtained from the first UI, which is the UI obtained from the default LookAndFeel**See Also:**[JComponent.getPreferredSize()](http://docs.google.com/javax/swing/JComponent.html#getPreferredSize()), [LayoutManager.preferredLayoutSize(java.awt.Container)](http://docs.google.com/java/awt/LayoutManager.html#preferredLayoutSize(java.awt.Container))

### getMinimumSize

public [Dimension](http://docs.google.com/java/awt/Dimension.html) **getMinimumSize**([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)

Invokes the getMinimumSize method on each UI handled by this object.

**Overrides:**[getMinimumSize](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getMinimumSize(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**a - the component whose minimum size is being queried; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components **Returns:**the value obtained from the first UI, which is the UI obtained from the default LookAndFeel**See Also:**[JComponent.getMinimumSize()](http://docs.google.com/javax/swing/JComponent.html#getMinimumSize()), [LayoutManager.minimumLayoutSize(java.awt.Container)](http://docs.google.com/java/awt/LayoutManager.html#minimumLayoutSize(java.awt.Container)), [ComponentUI.getPreferredSize(javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getPreferredSize(javax.swing.JComponent))

### getMaximumSize

public [Dimension](http://docs.google.com/java/awt/Dimension.html) **getMaximumSize**([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)

Invokes the getMaximumSize method on each UI handled by this object.

**Overrides:**[getMaximumSize](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getMaximumSize(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Parameters:**a - the component whose maximum size is being queried; this argument is often ignored, but might be used if the UI object is stateless and shared by multiple components **Returns:**the value obtained from the first UI, which is the UI obtained from the default LookAndFeel**See Also:**[JComponent.getMaximumSize()](http://docs.google.com/javax/swing/JComponent.html#getMaximumSize()), [LayoutManager2.maximumLayoutSize(java.awt.Container)](http://docs.google.com/java/awt/LayoutManager2.html#maximumLayoutSize(java.awt.Container))

### getAccessibleChildrenCount

public int **getAccessibleChildrenCount**([JComponent](http://docs.google.com/javax/swing/JComponent.html) a)

Invokes the getAccessibleChildrenCount method on each UI handled by this object.

**Overrides:**[getAccessibleChildrenCount](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getAccessibleChildrenCount(javax.swing.JComponent)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) **Returns:**the value obtained from the first UI, which is the UI obtained from the default LookAndFeel**See Also:**[ComponentUI.getAccessibleChild(javax.swing.JComponent, int)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getAccessibleChild(javax.swing.JComponent,%20int))

### getAccessibleChild

public [Accessible](http://docs.google.com/javax/accessibility/Accessible.html) **getAccessibleChild**([JComponent](http://docs.google.com/javax/swing/JComponent.html) a,  
 int b)

Invokes the getAccessibleChild method on each UI handled by this object.

**Overrides:**[getAccessibleChild](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getAccessibleChild(javax.swing.JComponent,%20int)) in class [ComponentUI](http://docs.google.com/javax/swing/plaf/ComponentUI.html) b - zero-based index of child **Returns:**the value obtained from the first UI, which is the UI obtained from the default LookAndFeel**See Also:**[ComponentUI.getAccessibleChildrenCount(javax.swing.JComponent)](http://docs.google.com/javax/swing/plaf/ComponentUI.html#getAccessibleChildrenCount(javax.swing.JComponent))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MultiViewportUI.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/plaf/multi/MultiTreeUI.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/multi/MultiViewportUI.html)    [**NO FRAMES**](http://docs.google.com/MultiViewportUI.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

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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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