| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PropertyEditorSupport.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/java/beans/PropertyEditorManager.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/PropertyVetoException.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/PropertyEditorSupport.html)    [**NO FRAMES**](http://docs.google.com/PropertyEditorSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#2s8eyo1) |

## **java.beans**

Class PropertyEditorSupport

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.beans.PropertyEditorSupport**

**All Implemented Interfaces:** [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html)

public class **PropertyEditorSupport**extends [Object](http://docs.google.com/java/lang/Object.html)implements [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html)

This is a support class to help build property editors.

It can be used either as a base class or as a delagatee.

| **Constructor Summary** | |
| --- | --- |
| [**PropertyEditorSupport**](http://docs.google.com/java/beans/PropertyEditorSupport.html#PropertyEditorSupport())()            Constructs a PropertyEditorSupport object. |
| [**PropertyEditorSupport**](http://docs.google.com/java/beans/PropertyEditorSupport.html#PropertyEditorSupport(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) source)            Constructs a PropertyEditorSupport object. |

| **Method Summary** | |
| --- | --- |
| void | [**addPropertyChangeListener**](http://docs.google.com/java/beans/PropertyEditorSupport.html#addPropertyChangeListener(java.beans.PropertyChangeListener))([PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) listener)            Register a listener for the PropertyChange event. |
| void | [**firePropertyChange**](http://docs.google.com/java/beans/PropertyEditorSupport.html#firePropertyChange())()            Report that we have been modified to any interested listeners. |
| [String](http://docs.google.com/java/lang/String.html) | [**getAsText**](http://docs.google.com/java/beans/PropertyEditorSupport.html#getAsText())()            Gets the property value as a string suitable for presentation to a human to edit. |
| [Component](http://docs.google.com/java/awt/Component.html) | [**getCustomEditor**](http://docs.google.com/java/beans/PropertyEditorSupport.html#getCustomEditor())()            A PropertyEditor may chose to make available a full custom Component that edits its property value. |
| [String](http://docs.google.com/java/lang/String.html) | [**getJavaInitializationString**](http://docs.google.com/java/beans/PropertyEditorSupport.html#getJavaInitializationString())()            This method is intended for use when generating Java code to set the value of the property. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getSource**](http://docs.google.com/java/beans/PropertyEditorSupport.html#getSource())()            Returns the bean that is used as the source of events. |
| [String](http://docs.google.com/java/lang/String.html)[] | [**getTags**](http://docs.google.com/java/beans/PropertyEditorSupport.html#getTags())()            If the property value must be one of a set of known tagged values, then this method should return an array of the tag values. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getValue**](http://docs.google.com/java/beans/PropertyEditorSupport.html#getValue())()            Gets the value of the property. |
| boolean | [**isPaintable**](http://docs.google.com/java/beans/PropertyEditorSupport.html#isPaintable())()            Determines whether the class will honor the paintValue method. |
| void | [**paintValue**](http://docs.google.com/java/beans/PropertyEditorSupport.html#paintValue(java.awt.Graphics,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) gfx, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) box)            Paint a representation of the value into a given area of screen real estate. |
| void | [**removePropertyChangeListener**](http://docs.google.com/java/beans/PropertyEditorSupport.html#removePropertyChangeListener(java.beans.PropertyChangeListener))([PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) listener)            Remove a listener for the PropertyChange event. |
| void | [**setAsText**](http://docs.google.com/java/beans/PropertyEditorSupport.html#setAsText(java.lang.String))([String](http://docs.google.com/java/lang/String.html) text)            Sets the property value by parsing a given String. |
| void | [**setSource**](http://docs.google.com/java/beans/PropertyEditorSupport.html#setSource(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) source)            Sets the source bean. |
| void | [**setValue**](http://docs.google.com/java/beans/PropertyEditorSupport.html#setValue(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) value)            Set (or change) the object that is to be edited. |
| boolean | [**supportsCustomEditor**](http://docs.google.com/java/beans/PropertyEditorSupport.html#supportsCustomEditor())()            Determines whether the propertyEditor can provide a custom editor. |

| **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)) |

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

### PropertyEditorSupport

public **PropertyEditorSupport**()

Constructs a PropertyEditorSupport object.

**Since:** 1.5

### PropertyEditorSupport

public **PropertyEditorSupport**([Object](http://docs.google.com/java/lang/Object.html) source)

Constructs a PropertyEditorSupport object.

**Parameters:**source - the source used for event firing**Since:** 1.5

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

### getSource

public [Object](http://docs.google.com/java/lang/Object.html) **getSource**()

Returns the bean that is used as the source of events. If the source has not been explicitly set then this instance of PropertyEditorSupport is returned.

**Returns:**the source object or this instance**Since:** 1.5

### setSource

public void **setSource**([Object](http://docs.google.com/java/lang/Object.html) source)

Sets the source bean.

The source bean is used as the source of events for the property changes. This source should be used for information purposes only and should not be modified by the PropertyEditor.

**Parameters:**source - source object to be used for events**Since:** 1.5

### setValue

public void **setValue**([Object](http://docs.google.com/java/lang/Object.html) value)

Set (or change) the object that is to be edited.

**Specified by:**[setValue](http://docs.google.com/java/beans/PropertyEditor.html#setValue(java.lang.Object)) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Parameters:**value - The new target object to be edited. Note that this object should not be modified by the PropertyEditor, rather the PropertyEditor should create a new object to hold any modified value.

### getValue

public [Object](http://docs.google.com/java/lang/Object.html) **getValue**()

Gets the value of the property.

**Specified by:**[getValue](http://docs.google.com/java/beans/PropertyEditor.html#getValue()) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Returns:**The value of the property.

### isPaintable

public boolean **isPaintable**()

Determines whether the class will honor the paintValue method.

**Specified by:**[isPaintable](http://docs.google.com/java/beans/PropertyEditor.html#isPaintable()) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Returns:**True if the class will honor the paintValue method.

### paintValue

public void **paintValue**([Graphics](http://docs.google.com/java/awt/Graphics.html) gfx,  
 [Rectangle](http://docs.google.com/java/awt/Rectangle.html) box)

Paint a representation of the value into a given area of screen real estate. Note that the propertyEditor is responsible for doing its own clipping so that it fits into the given rectangle.

If the PropertyEditor doesn't honor paint requests (see isPaintable) this method should be a silent noop.

**Specified by:**[paintValue](http://docs.google.com/java/beans/PropertyEditor.html#paintValue(java.awt.Graphics,%20java.awt.Rectangle)) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Parameters:**gfx - Graphics object to paint into.box - Rectangle within graphics object into which we should paint.

### getJavaInitializationString

public [String](http://docs.google.com/java/lang/String.html) **getJavaInitializationString**()

This method is intended for use when generating Java code to set the value of the property. It should return a fragment of Java code that can be used to initialize a variable with the current property value.

Example results are "2", "new Color(127,127,34)", "Color.orange", etc.

**Specified by:**[getJavaInitializationString](http://docs.google.com/java/beans/PropertyEditor.html#getJavaInitializationString()) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Returns:**A fragment of Java code representing an initializer for the current value.

### getAsText

public [String](http://docs.google.com/java/lang/String.html) **getAsText**()

Gets the property value as a string suitable for presentation to a human to edit.

**Specified by:**[getAsText](http://docs.google.com/java/beans/PropertyEditor.html#getAsText()) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Returns:**The property value as a string suitable for presentation to a human to edit.

Returns "null" is the value can't be expressed as a string.

If a non-null value is returned, then the PropertyEditor should be prepared to parse that string back in setAsText().

### setAsText

public void **setAsText**([String](http://docs.google.com/java/lang/String.html) text)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Sets the property value by parsing a given String. May raise java.lang.IllegalArgumentException if either the String is badly formatted or if this kind of property can't be expressed as text.

**Specified by:**[setAsText](http://docs.google.com/java/beans/PropertyEditor.html#setAsText(java.lang.String)) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Parameters:**text - The string to be parsed. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

### getTags

public [String](http://docs.google.com/java/lang/String.html)[] **getTags**()

If the property value must be one of a set of known tagged values, then this method should return an array of the tag values. This can be used to represent (for example) enum values. If a PropertyEditor supports tags, then it should support the use of setAsText with a tag value as a way of setting the value.

**Specified by:**[getTags](http://docs.google.com/java/beans/PropertyEditor.html#getTags()) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Returns:**The tag values for this property. May be null if this property cannot be represented as a tagged value.

### getCustomEditor

public [Component](http://docs.google.com/java/awt/Component.html) **getCustomEditor**()

A PropertyEditor may chose to make available a full custom Component that edits its property value. It is the responsibility of the PropertyEditor to hook itself up to its editor Component itself and to report property value changes by firing a PropertyChange event.

The higher-level code that calls getCustomEditor may either embed the Component in some larger property sheet, or it may put it in its own individual dialog, or ...

**Specified by:**[getCustomEditor](http://docs.google.com/java/beans/PropertyEditor.html#getCustomEditor()) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Returns:**A java.awt.Component that will allow a human to directly edit the current property value. May be null if this is not supported.

### supportsCustomEditor

public boolean **supportsCustomEditor**()

Determines whether the propertyEditor can provide a custom editor.

**Specified by:**[supportsCustomEditor](http://docs.google.com/java/beans/PropertyEditor.html#supportsCustomEditor()) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Returns:**True if the propertyEditor can provide a custom editor.

### addPropertyChangeListener

public void **addPropertyChangeListener**([PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) listener)

Register a listener for the PropertyChange event. The class will fire a PropertyChange value whenever the value is updated.

**Specified by:**[addPropertyChangeListener](http://docs.google.com/java/beans/PropertyEditor.html#addPropertyChangeListener(java.beans.PropertyChangeListener)) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Parameters:**listener - An object to be invoked when a PropertyChange event is fired.

### removePropertyChangeListener

public void **removePropertyChangeListener**([PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) listener)

Remove a listener for the PropertyChange event.

**Specified by:**[removePropertyChangeListener](http://docs.google.com/java/beans/PropertyEditor.html#removePropertyChangeListener(java.beans.PropertyChangeListener)) in interface [PropertyEditor](http://docs.google.com/java/beans/PropertyEditor.html) **Parameters:**listener - The PropertyChange listener to be removed.

### firePropertyChange

public void **firePropertyChange**()

Report that we have been modified to any interested listeners.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PropertyEditorSupport.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/java/beans/PropertyEditorManager.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/PropertyVetoException.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/PropertyEditorSupport.html)    [**NO FRAMES**](http://docs.google.com/PropertyEditorSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#2s8eyo1) |

[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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