| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Clipboard.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   [**NEXT CLASS**](http://docs.google.com/java/awt/datatransfer/ClipboardOwner.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/datatransfer/Clipboard.html)    [**NO FRAMES**](http://docs.google.com/Clipboard.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

## **java.awt.datatransfer**

Class Clipboard

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.awt.datatransfer.Clipboard**

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

A class that implements a mechanism to transfer data using cut/copy/paste operations.

[FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html)s may be registered on an instance of the Clipboard class to be notified about changes to the set of [DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html)s available on this clipboard (see [addFlavorListener(java.awt.datatransfer.FlavorListener)](http://docs.google.com/java/awt/datatransfer/Clipboard.html#addFlavorListener(java.awt.datatransfer.FlavorListener))).

**See Also:**[Toolkit.getSystemClipboard()](http://docs.google.com/java/awt/Toolkit.html#getSystemClipboard()), [Toolkit.getSystemSelection()](http://docs.google.com/java/awt/Toolkit.html#getSystemSelection())

| **Field Summary** | |
| --- | --- |
| protected  [Transferable](http://docs.google.com/java/awt/datatransfer/Transferable.html) | [**contents**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#contents) |
| protected  [ClipboardOwner](http://docs.google.com/java/awt/datatransfer/ClipboardOwner.html) | [**owner**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#owner) |

| **Constructor Summary** | |
| --- | --- |
| [**Clipboard**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#Clipboard(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Creates a clipboard object. |

| **Method Summary** | |
| --- | --- |
| void | [**addFlavorListener**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#addFlavorListener(java.awt.datatransfer.FlavorListener))([FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html) listener)            Registers the specified FlavorListener to receive FlavorEvents from this clipboard. |
| [DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html)[] | [**getAvailableDataFlavors**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#getAvailableDataFlavors())()            Returns an array of DataFlavors in which the current contents of this clipboard can be provided. |
| [Transferable](http://docs.google.com/java/awt/datatransfer/Transferable.html) | [**getContents**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#getContents(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) requestor)            Returns a transferable object representing the current contents of the clipboard. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getData**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#getData(java.awt.datatransfer.DataFlavor))([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) flavor)            Returns an object representing the current contents of this clipboard in the specified DataFlavor. |
| [FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html)[] | [**getFlavorListeners**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#getFlavorListeners())()            Returns an array of all the FlavorListeners currently registered on this Clipboard. |
| [String](http://docs.google.com/java/lang/String.html) | [**getName**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#getName())()            Returns the name of this clipboard object. |
| boolean | [**isDataFlavorAvailable**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#isDataFlavorAvailable(java.awt.datatransfer.DataFlavor))([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) flavor)            Returns whether or not the current contents of this clipboard can be provided in the specified DataFlavor. |
| void | [**removeFlavorListener**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#removeFlavorListener(java.awt.datatransfer.FlavorListener))([FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html) listener)            Removes the specified FlavorListener so that it no longer receives FlavorEvents from this Clipboard. |
| void | [**setContents**](http://docs.google.com/java/awt/datatransfer/Clipboard.html#setContents(java.awt.datatransfer.Transferable,%20java.awt.datatransfer.ClipboardOwner))([Transferable](http://docs.google.com/java/awt/datatransfer/Transferable.html) contents, [ClipboardOwner](http://docs.google.com/java/awt/datatransfer/ClipboardOwner.html) owner)            Sets the current contents of the clipboard to the specified transferable object and registers the specified clipboard owner as the owner of the new contents. |

| **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** |
| --- |

### owner

protected [ClipboardOwner](http://docs.google.com/java/awt/datatransfer/ClipboardOwner.html) **owner**

### contents

protected [Transferable](http://docs.google.com/java/awt/datatransfer/Transferable.html) **contents**

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

### Clipboard

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

Creates a clipboard object.

**See Also:**[Toolkit.getSystemClipboard()](http://docs.google.com/java/awt/Toolkit.html#getSystemClipboard())

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

### getName

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

Returns the name of this clipboard object.

**See Also:**[Toolkit.getSystemClipboard()](http://docs.google.com/java/awt/Toolkit.html#getSystemClipboard())

### setContents

public void **setContents**([Transferable](http://docs.google.com/java/awt/datatransfer/Transferable.html) contents,  
 [ClipboardOwner](http://docs.google.com/java/awt/datatransfer/ClipboardOwner.html) owner)

Sets the current contents of the clipboard to the specified transferable object and registers the specified clipboard owner as the owner of the new contents.

If there is an existing owner different from the argument owner, that owner is notified that it no longer holds ownership of the clipboard contents via an invocation of ClipboardOwner.lostOwnership() on that owner. An implementation of setContents() is free not to invoke lostOwnership() directly from this method. For example, lostOwnership() may be invoked later on a different thread. The same applies to FlavorListeners registered on this clipboard.

The method throws IllegalStateException if the clipboard is currently unavailable. For example, on some platforms, the system clipboard is unavailable while it is accessed by another application.

**Parameters:**contents - the transferable object representing the clipboard contentowner - the object which owns the clipboard content **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if the clipboard is currently unavailable**See Also:**[Toolkit.getSystemClipboard()](http://docs.google.com/java/awt/Toolkit.html#getSystemClipboard())

### getContents

public [Transferable](http://docs.google.com/java/awt/datatransfer/Transferable.html) **getContents**([Object](http://docs.google.com/java/lang/Object.html) requestor)

Returns a transferable object representing the current contents of the clipboard. If the clipboard currently has no contents, it returns null. The parameter Object requestor is not currently used. The method throws IllegalStateException if the clipboard is currently unavailable. For example, on some platforms, the system clipboard is unavailable while it is accessed by another application.

**Parameters:**requestor - the object requesting the clip data (not used) **Returns:**the current transferable object on the clipboard **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if the clipboard is currently unavailable**See Also:**[Toolkit.getSystemClipboard()](http://docs.google.com/java/awt/Toolkit.html#getSystemClipboard())

### getAvailableDataFlavors

public [DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html)[] **getAvailableDataFlavors**()

Returns an array of DataFlavors in which the current contents of this clipboard can be provided. If there are no DataFlavors available, this method returns a zero-length array.

**Returns:**an array of DataFlavors in which the current contents of this clipboard can be provided **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this clipboard is currently unavailable**Since:** 1.5

### isDataFlavorAvailable

public boolean **isDataFlavorAvailable**([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) flavor)

Returns whether or not the current contents of this clipboard can be provided in the specified DataFlavor.

**Parameters:**flavor - the requested DataFlavor for the contents **Returns:**true if the current contents of this clipboard can be provided in the specified DataFlavor; false otherwise **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if flavor is null [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this clipboard is currently unavailable**Since:** 1.5

### getData

public [Object](http://docs.google.com/java/lang/Object.html) **getData**([DataFlavor](http://docs.google.com/java/awt/datatransfer/DataFlavor.html) flavor)  
 throws [UnsupportedFlavorException](http://docs.google.com/java/awt/datatransfer/UnsupportedFlavorException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Returns an object representing the current contents of this clipboard in the specified DataFlavor. The class of the object returned is defined by the representation class of flavor.

**Parameters:**flavor - the requested DataFlavor for the contents **Returns:**an object representing the current contents of this clipboard in the specified DataFlavor **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if flavor is null [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this clipboard is currently unavailable [UnsupportedFlavorException](http://docs.google.com/java/awt/datatransfer/UnsupportedFlavorException.html) - if the requested DataFlavor is not available [IOException](http://docs.google.com/java/io/IOException.html) - if the data in the requested DataFlavor can not be retrieved**Since:** 1.5 **See Also:**[DataFlavor.getRepresentationClass()](http://docs.google.com/java/awt/datatransfer/DataFlavor.html#getRepresentationClass())

### addFlavorListener

public void **addFlavorListener**([FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html) listener)

Registers the specified FlavorListener to receive FlavorEvents from this clipboard. If listener is null, no exception is thrown and no action is performed.

**Parameters:**listener - the listener to be added**Since:** 1.5 **See Also:**[removeFlavorListener(java.awt.datatransfer.FlavorListener)](http://docs.google.com/java/awt/datatransfer/Clipboard.html#removeFlavorListener(java.awt.datatransfer.FlavorListener)), [getFlavorListeners()](http://docs.google.com/java/awt/datatransfer/Clipboard.html#getFlavorListeners()), [FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html), [FlavorEvent](http://docs.google.com/java/awt/datatransfer/FlavorEvent.html)

### removeFlavorListener

public void **removeFlavorListener**([FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html) listener)

Removes the specified FlavorListener so that it no longer receives FlavorEvents from this Clipboard. This method performs no function, nor does it throw an exception, if the listener specified by the argument was not previously added to this Clipboard. If listener is null, no exception is thrown and no action is performed.

**Parameters:**listener - the listener to be removed**Since:** 1.5 **See Also:**[addFlavorListener(java.awt.datatransfer.FlavorListener)](http://docs.google.com/java/awt/datatransfer/Clipboard.html#addFlavorListener(java.awt.datatransfer.FlavorListener)), [getFlavorListeners()](http://docs.google.com/java/awt/datatransfer/Clipboard.html#getFlavorListeners()), [FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html), [FlavorEvent](http://docs.google.com/java/awt/datatransfer/FlavorEvent.html)

### getFlavorListeners

public [FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html)[] **getFlavorListeners**()

Returns an array of all the FlavorListeners currently registered on this Clipboard.

**Returns:**all of this clipboard's FlavorListeners or an empty array if no listeners are currently registered**Since:** 1.5 **See Also:**[addFlavorListener(java.awt.datatransfer.FlavorListener)](http://docs.google.com/java/awt/datatransfer/Clipboard.html#addFlavorListener(java.awt.datatransfer.FlavorListener)), [removeFlavorListener(java.awt.datatransfer.FlavorListener)](http://docs.google.com/java/awt/datatransfer/Clipboard.html#removeFlavorListener(java.awt.datatransfer.FlavorListener)), [FlavorListener](http://docs.google.com/java/awt/datatransfer/FlavorListener.html), [FlavorEvent](http://docs.google.com/java/awt/datatransfer/FlavorEvent.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Clipboard.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   [**NEXT CLASS**](http://docs.google.com/java/awt/datatransfer/ClipboardOwner.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/datatransfer/Clipboard.html)    [**NO FRAMES**](http://docs.google.com/Clipboard.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [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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