| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/HashAttributeSet.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/print/attribute/EnumSyntax.html)   [**NEXT CLASS**](http://docs.google.com/javax/print/attribute/HashDocAttributeSet.html) | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute/HashAttributeSet.html)    [**NO FRAMES**](http://docs.google.com/HashAttributeSet.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#1ksv4uv) |

## **javax.print.attribute**

Class HashAttributeSet

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.print.attribute.HashAttributeSet**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Direct Known Subclasses:** [HashDocAttributeSet](http://docs.google.com/javax/print/attribute/HashDocAttributeSet.html), [HashPrintJobAttributeSet](http://docs.google.com/javax/print/attribute/HashPrintJobAttributeSet.html), [HashPrintRequestAttributeSet](http://docs.google.com/javax/print/attribute/HashPrintRequestAttributeSet.html), [HashPrintServiceAttributeSet](http://docs.google.com/javax/print/attribute/HashPrintServiceAttributeSet.html)

public class **HashAttributeSet**extends [Object](http://docs.google.com/java/lang/Object.html)implements [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html), [Serializable](http://docs.google.com/java/io/Serializable.html)

Class HashAttributeSet provides an AttributeSet implementation with characteristics of a hash map.

**See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#javax.print.attribute.HashAttributeSet)

| **Constructor Summary** | |
| --- | --- |
|  | [**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#HashAttributeSet())()            Construct a new, empty attribute set. |
|  | [**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#HashAttributeSet(javax.print.attribute.Attribute))([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute)            Construct a new attribute set, initially populated with the given attribute. |
|  | [**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#HashAttributeSet(javax.print.attribute.Attribute%5B%5D))([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html)[] attributes)            Construct a new attribute set, initially populated with the values from the given array. |
| protected | [**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#HashAttributeSet(javax.print.attribute.Attribute%5B%5D,%20java.lang.Class))([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html)[] attributes, [Class](http://docs.google.com/java/lang/Class.html)<?> interfaceName)            Construct a new attribute set, where the members of the attribute set are restricted to the given interface. |
| protected | [**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#HashAttributeSet(javax.print.attribute.Attribute,%20java.lang.Class))([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute, [Class](http://docs.google.com/java/lang/Class.html)<?> interfaceName)            Construct a new attribute set, initially populated with the given attribute, where the members of the attribute set are restricted to the given interface. |
|  | [**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#HashAttributeSet(javax.print.attribute.AttributeSet))([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Construct a new attribute set, initially populated with the values from the given set. |
| protected | [**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#HashAttributeSet(javax.print.attribute.AttributeSet,%20java.lang.Class))([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes, [Class](http://docs.google.com/java/lang/Class.html)<?> interfaceName)            Construct a new attribute set, initially populated with the values from the given set where the members of the attribute set are restricted to the given interface. |
| protected | [**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#HashAttributeSet(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<?> interfaceName)            Construct a new, empty attribute set, where the members of the attribute set are restricted to the given interface. |

| **Method Summary** | |
| --- | --- |
| boolean | [**add**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#add(javax.print.attribute.Attribute))([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute)            Adds the specified attribute to this attribute set if it is not already present, first removing any existing in the same attribute category as the specified attribute value. |
| boolean | [**addAll**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#addAll(javax.print.attribute.AttributeSet))([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Adds all of the elements in the specified set to this attribute. |
| void | [**clear**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#clear())()            Removes all attributes from this attribute set. |
| boolean | [**containsKey**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#containsKey(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<?> category)            Returns true if this attribute set contains an attribute for the specified category. |
| boolean | [**containsValue**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#containsValue(javax.print.attribute.Attribute))([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute)            Returns true if this attribute set contains the given attribute. |
| boolean | [**equals**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) object)            Compares the specified object with this attribute set for equality. |
| [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) | [**get**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#get(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<?> category)            Returns the attribute value which this attribute set contains in the given attribute category. |
| int | [**hashCode**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#hashCode())()            Returns the hash code value for this attribute set. |
| boolean | [**isEmpty**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#isEmpty())()            Returns true if this attribute set contains no attributes. |
| boolean | [**remove**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#remove(javax.print.attribute.Attribute))([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute)            Removes the specified attribute from this attribute set if present. |
| boolean | [**remove**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#remove(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html)<?> category)            Removes any attribute for this category from this attribute set if present. |
| int | [**size**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#size())()            Returns the number of attributes in this attribute set. |
| [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html)[] | [**toArray**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#toArray())()            Returns an array of the attributes contained in this set. |

| **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()), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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** |
| --- |

### HashAttributeSet

public **HashAttributeSet**()

Construct a new, empty attribute set.

### HashAttributeSet

public **HashAttributeSet**([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute)

Construct a new attribute set, initially populated with the given attribute.

**Parameters:**attribute - Attribute value to add to the set. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - (unchecked exception) Thrown if attribute is null.

### HashAttributeSet

public **HashAttributeSet**([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html)[] attributes)

Construct a new attribute set, initially populated with the values from the given array. The new attribute set is populated by adding the elements of attributes array to the set in sequence, starting at index 0. Thus, later array elements may replace earlier array elements if the array contains duplicate attribute values or attribute categories.

**Parameters:**attributes - Array of attribute values to add to the set. If null, an empty attribute set is constructed. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - (unchecked exception) Thrown if any element of attributes is null.

### HashAttributeSet

public **HashAttributeSet**([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)

Construct a new attribute set, initially populated with the values from the given set.

**Parameters:**attributes - Set of attributes from which to initialise this set. If null, an empty attribute set is constructed.

### HashAttributeSet

protected **HashAttributeSet**([Class](http://docs.google.com/java/lang/Class.html)<?> interfaceName)

Construct a new, empty attribute set, where the members of the attribute set are restricted to the given interface.

**Parameters:**interfaceName - The interface of which all members of this attribute set must be an instance. It is assumed to be interface [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) or a subinterface thereof. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if interfaceName is null.

### HashAttributeSet

protected **HashAttributeSet**([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> interfaceName)

Construct a new attribute set, initially populated with the given attribute, where the members of the attribute set are restricted to the given interface.

**Parameters:**attribute - Attribute value to add to the set.interfaceName - The interface of which all members of this attribute set must be an instance. It is assumed to be interface [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) or a subinterface thereof. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - (unchecked exception) Thrown if attribute is null. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if interfaceName is null. [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - (unchecked exception) Thrown if attribute is not an instance of interfaceName.

### HashAttributeSet

protected **HashAttributeSet**([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html)[] attributes,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> interfaceName)

Construct a new attribute set, where the members of the attribute set are restricted to the given interface. The new attribute set is populated by adding the elements of attributes array to the set in sequence, starting at index 0. Thus, later array elements may replace earlier array elements if the array contains duplicate attribute values or attribute categories.

**Parameters:**attributes - Array of attribute values to add to the set. If null, an empty attribute set is constructed.interfaceName - The interface of which all members of this attribute set must be an instance. It is assumed to be interface [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) or a subinterface thereof. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - (unchecked exception) Thrown if any element of attributes is null. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if interfaceName is null. [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - (unchecked exception) Thrown if any element of attributes is not an instance of interfaceName.

### HashAttributeSet

protected **HashAttributeSet**([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> interfaceName)

Construct a new attribute set, initially populated with the values from the given set where the members of the attribute set are restricted to the given interface.

**Parameters:**attributes - set of attribute values to initialise the set. If null, an empty attribute set is constructed.interfaceName - The interface of which all members of this attribute set must be an instance. It is assumed to be interface [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) or a subinterface thereof. **Throws:** [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - (unchecked exception) Thrown if any element of attributes is not an instance of interfaceName.

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

### get

public [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) **get**([Class](http://docs.google.com/java/lang/Class.html)<?> category)

Returns the attribute value which this attribute set contains in the given attribute category. Returns null if this attribute set does not contain any attribute value in the given attribute category.

**Specified by:**[get](http://docs.google.com/javax/print/attribute/AttributeSet.html#get(java.lang.Class)) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Parameters:**category - Attribute category whose associated attribute value is to be returned. It must be a [Class](http://docs.google.com/java/lang/Class.html) that implements interface [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html). **Returns:**The attribute value in the given attribute category contained in this attribute set, or null if this attribute set does not contain any attribute value in the given attribute category. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - (unchecked exception) Thrown if the category is null. [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - (unchecked exception) Thrown if the category is not a [Class](http://docs.google.com/java/lang/Class.html) that implements interface [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html).

### add

public boolean **add**([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute)

Adds the specified attribute to this attribute set if it is not already present, first removing any existing in the same attribute category as the specified attribute value.

**Specified by:**[add](http://docs.google.com/javax/print/attribute/AttributeSet.html#add(javax.print.attribute.Attribute)) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Parameters:**attribute - Attribute value to be added to this attribute set. **Returns:**true if this attribute set changed as a result of the call, i.e., the given attribute value was not already a member of this attribute set. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - (unchecked exception) Thrown if the attribute is null. [UnmodifiableSetException](http://docs.google.com/javax/print/attribute/UnmodifiableSetException.html) - (unchecked exception) Thrown if this attribute set does not support the add() operation.

### remove

public boolean **remove**([Class](http://docs.google.com/java/lang/Class.html)<?> category)

Removes any attribute for this category from this attribute set if present. If category is null, then remove() does nothing and returns false.

**Specified by:**[remove](http://docs.google.com/javax/print/attribute/AttributeSet.html#remove(java.lang.Class)) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Parameters:**category - Attribute category to be removed from this attribute set. **Returns:**true if this attribute set changed as a result of the call, i.e., the given attribute category had been a member of this attribute set. **Throws:** [UnmodifiableSetException](http://docs.google.com/javax/print/attribute/UnmodifiableSetException.html) - (unchecked exception) Thrown if this attribute set does not support the remove() operation.

### remove

public boolean **remove**([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute)

Removes the specified attribute from this attribute set if present. If attribute is null, then remove() does nothing and returns false.

**Specified by:**[remove](http://docs.google.com/javax/print/attribute/AttributeSet.html#remove(javax.print.attribute.Attribute)) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Parameters:**attribute - Attribute value to be removed from this attribute set. **Returns:**true if this attribute set changed as a result of the call, i.e., the given attribute value had been a member of this attribute set. **Throws:** [UnmodifiableSetException](http://docs.google.com/javax/print/attribute/UnmodifiableSetException.html) - (unchecked exception) Thrown if this attribute set does not support the remove() operation.

### containsKey

public boolean **containsKey**([Class](http://docs.google.com/java/lang/Class.html)<?> category)

Returns true if this attribute set contains an attribute for the specified category.

**Specified by:**[containsKey](http://docs.google.com/javax/print/attribute/AttributeSet.html#containsKey(java.lang.Class)) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Parameters:**category - whose presence in this attribute set is to be tested. **Returns:**true if this attribute set contains an attribute value for the specified category.

### containsValue

public boolean **containsValue**([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attribute)

Returns true if this attribute set contains the given attribute.

**Specified by:**[containsValue](http://docs.google.com/javax/print/attribute/AttributeSet.html#containsValue(javax.print.attribute.Attribute)) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Parameters:**attribute - value whose presence in this attribute set is to be tested. **Returns:**true if this attribute set contains the given attribute value.

### addAll

public boolean **addAll**([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)

Adds all of the elements in the specified set to this attribute. The outcome is the same as if the [add(Attribute)](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#add(javax.print.attribute.Attribute)) operation had been applied to this attribute set successively with each element from the specified set. The behavior of the addAll(AttributeSet) operation is unspecified if the specified set is modified while the operation is in progress.

If the addAll(AttributeSet) operation throws an exception, the effect on this attribute set's state is implementation dependent; elements from the specified set before the point of the exception may or may not have been added to this attribute set.

**Specified by:**[addAll](http://docs.google.com/javax/print/attribute/AttributeSet.html#addAll(javax.print.attribute.AttributeSet)) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Parameters:**attributes - whose elements are to be added to this attribute set. **Returns:**true if this attribute set changed as a result of the call. **Throws:** [UnmodifiableSetException](http://docs.google.com/javax/print/attribute/UnmodifiableSetException.html) - (Unchecked exception) Thrown if this attribute set does not support the addAll(AttributeSet) method. [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - (Unchecked exception) Thrown if some element in the specified set is null, or the set is null.**See Also:**[add(Attribute)](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#add(javax.print.attribute.Attribute))

### size

public int **size**()

Returns the number of attributes in this attribute set. If this attribute set contains more than Integer.MAX\_VALUE elements, returns Integer.MAX\_VALUE.

**Specified by:**[size](http://docs.google.com/javax/print/attribute/AttributeSet.html#size()) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Returns:**The number of attributes in this attribute set.

### toArray

public [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html)[] **toArray**()

**Description copied from interface:** [**AttributeSet**](http://docs.google.com/javax/print/attribute/AttributeSet.html#toArray()) Returns an array of the attributes contained in this set.

**Specified by:**[toArray](http://docs.google.com/javax/print/attribute/AttributeSet.html#toArray()) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Returns:**the Attributes contained in this set as an array, zero length if the AttributeSet is empty.

### clear

public void **clear**()

Removes all attributes from this attribute set.

**Specified by:**[clear](http://docs.google.com/javax/print/attribute/AttributeSet.html#clear()) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Throws:** [UnmodifiableSetException](http://docs.google.com/javax/print/attribute/UnmodifiableSetException.html) - (unchecked exception) Thrown if this attribute set does not support the clear() operation.

### isEmpty

public boolean **isEmpty**()

Returns true if this attribute set contains no attributes.

**Specified by:**[isEmpty](http://docs.google.com/javax/print/attribute/AttributeSet.html#isEmpty()) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) **Returns:**true if this attribute set contains no attributes.

### equals

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

Compares the specified object with this attribute set for equality. Returns true if the given object is also an attribute set and the two attribute sets contain the same attribute category-attribute value mappings. This ensures that the equals() method works properly across different implementations of the AttributeSet interface.

**Specified by:**[equals](http://docs.google.com/javax/print/attribute/AttributeSet.html#equals(java.lang.Object)) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html)**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**object - to be compared for equality with this attribute set. **Returns:**true if the specified object is equal to this attribute set.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

public int **hashCode**()

Returns the hash code value for this attribute set. The hash code of an attribute set is defined to be the sum of the hash codes of each entry in the AttributeSet. This ensures that t1.equals(t2) implies that t1.hashCode()==t2.hashCode() for any two attribute sets t1 and t2, as required by the general contract of [Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()).

**Specified by:**[hashCode](http://docs.google.com/javax/print/attribute/AttributeSet.html#hashCode()) in interface [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html)**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**The hash code value for this attribute set.**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.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/HashAttributeSet.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#1ksv4uv) |

[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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