| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SheetCollate.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/standard/Severity.html)   [**NEXT CLASS**](http://docs.google.com/javax/print/attribute/standard/Sides.html) | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute/standard/SheetCollate.html)    [**NO FRAMES**](http://docs.google.com/SheetCollate.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

## **javax.print.attribute.standard**

Class SheetCollate

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

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html), [DocAttribute](http://docs.google.com/javax/print/attribute/DocAttribute.html), [PrintJobAttribute](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html), [PrintRequestAttribute](http://docs.google.com/javax/print/attribute/PrintRequestAttribute.html)

public final class **SheetCollate**extends [EnumSyntax](http://docs.google.com/javax/print/attribute/EnumSyntax.html)implements [DocAttribute](http://docs.google.com/javax/print/attribute/DocAttribute.html), [PrintRequestAttribute](http://docs.google.com/javax/print/attribute/PrintRequestAttribute.html), [PrintJobAttribute](http://docs.google.com/javax/print/attribute/PrintJobAttribute.html)

Class SheetCollate is a printing attribute class, an enumeration, that specifies whether or not the media sheets of each copy of each printed document in a job are to be in sequence, when multiple copies of the document are specified by the [Copies](http://docs.google.com/javax/print/attribute/standard/Copies.html) attribute. When SheetCollate is COLLATED, each copy of each document is printed with the print-stream sheets in sequence. When SheetCollate is UNCOLLATED, each print-stream sheet is printed a number of times equal to the value of the [Copies](http://docs.google.com/javax/print/attribute/standard/Copies.html) attribute in succession. For example, suppose a document produces two media sheets as output, [Copies](http://docs.google.com/javax/print/attribute/standard/Copies.html) is 6, and SheetCollate is UNCOLLATED; in this case six copies of the first media sheet are printed followed by six copies of the second media sheet.

Whether the effect of sheet collation is achieved by placing copies of a document in multiple output bins or in the same output bin with implementation defined document separation is implementation dependent. Also whether it is achieved by making multiple passes over the job or by using an output sorter is implementation dependent.

If a printer does not support the SheetCollate attribute (meaning the client cannot specify any particular sheet collation), the printer must behave as though SheetCollate were always set to COLLATED.

The SheetCollate attribute interacts with the [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) attribute. The [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) attribute describes the collation of entire documents, and the SheetCollate attribute describes the semantics of collating individual pages within a document.

The effect of a SheetCollate attribute on a multidoc print job (a job with multiple documents) depends on whether all the docs have the same sheet collation specified or whether different docs have different sheet collations specified, and on the (perhaps defaulted) value of the [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) attribute.

* If all the docs have the same sheet collation specified, then the following combinations of SheetCollate and [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) are permitted, and the printer reports an error when the job is submitted if any other combination is specified:
  + SheetCollate = COLLATED, [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) = SINGLE\_DOCUMENT -- All the input docs will be combined into one output document. Multiple copies of the output document will be produced with pages in collated order, i.e. pages 1, 2, 3, . . ., 1, 2, 3, . . .
  + SheetCollate = COLLATED, [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) = SINGLE\_DOCUMENT\_NEW\_SHEET -- All the input docs will be combined into one output document, and the first impression of each input doc will always start on a new media sheet. Multiple copies of the output document will be produced with pages in collated order, i.e. pages 1, 2, 3, . . ., 1, 2, 3, . . .
  + SheetCollate = COLLATED, [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) = SEPARATE\_DOCUMENTS\_UNCOLLATED\_COPIES -- Each input doc will remain a separate output document. Multiple copies of each output document (call them A, B, . . .) will be produced with each document's pages in collated order, but the documents themselves in uncollated order, i.e. pages A1, A2, A3, . . ., A1, A2, A3, . . ., B1, B2, B3, . . ., B1, B2, B3, . . .
  + SheetCollate = COLLATED, [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) = SEPARATE\_DOCUMENTS\_COLLATED\_COPIES -- Each input doc will remain a separate output document. Multiple copies of each output document (call them A, B, . . .) will be produced with each document's pages in collated order, with the documents themselves also in collated order, i.e. pages A1, A2, A3, . . ., B1, B2, B3, . . ., A1, A2, A3, . . ., B1, B2, B3, . . .
  + SheetCollate = UNCOLLATED, [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) = SINGLE\_DOCUMENT -- All the input docs will be combined into one output document. Multiple copies of the output document will be produced with pages in uncollated order, i.e. pages 1, 1, . . ., 2, 2, . . ., 3, 3, . . .
  + SheetCollate = UNCOLLATED, [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) = SINGLE\_DOCUMENT\_NEW\_SHEET -- All the input docs will be combined into one output document, and the first impression of each input doc will always start on a new media sheet. Multiple copies of the output document will be produced with pages in uncollated order, i.e. pages 1, 1, . . ., 2, 2, . . ., 3, 3, . . .
  + SheetCollate = UNCOLLATED, [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) = SEPARATE\_DOCUMENTS\_UNCOLLATED\_COPIES -- Each input doc will remain a separate output document. Multiple copies of each output document (call them A, B, . . .) will be produced with each document's pages in uncollated order, with the documents themselves also in uncollated order, i.e. pages A1, A1, . . ., A2, A2, . . ., A3, A3, . . ., B1, B1, . . ., B2, B2, . . ., B3, B3, . . .
* If different docs have different sheet collations specified, then only one value of [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) is permitted, and the printer reports an error when the job is submitted if any other value is specified:
  + [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) = SEPARATE\_DOCUMENTS\_UNCOLLATED\_COPIES -- Each input doc will remain a separate output document. Multiple copies of each output document (call them A, B, . . .) will be produced with each document's pages in collated or uncollated order as the corresponding input doc's SheetCollate attribute specifies, and with the documents themselves in uncollated order. If document A had SheetCollate = UNCOLLATED and document B had SheetCollate = COLLATED, the following pages would be produced: A1, A1, . . ., A2, A2, . . ., A3, A3, . . ., B1, B2, B3, . . ., B1, B2, B3, . . .

**IPP Compatibility:** SheetCollate is not an IPP attribute at present.

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

| **Field Summary** | |
| --- | --- |
| static [SheetCollate](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html) | [**COLLATED**](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html#COLLATED)            Sheets within a document appear in collated order when multiple copies are printed. |
| static [SheetCollate](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html) | [**UNCOLLATED**](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html#UNCOLLATED)            Sheets within a document appear in uncollated order when multiple copies are printed. |

| **Constructor Summary** | |
| --- | --- |
| protected | [**SheetCollate**](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html#SheetCollate(int))(int value)            Construct a new sheet collate enumeration value with the given integer value. |

| **Method Summary** | |
| --- | --- |
| [Class](http://docs.google.com/java/lang/Class.html)<? extends [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html)> | [**getCategory**](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html#getCategory())()            Get the printing attribute class which is to be used as the "category" for this printing attribute value. |
| protected  [EnumSyntax](http://docs.google.com/javax/print/attribute/EnumSyntax.html)[] | [**getEnumValueTable**](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html#getEnumValueTable())()            Returns the enumeration value table for class SheetCollate. |
| [String](http://docs.google.com/java/lang/String.html) | [**getName**](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html#getName())()            Get the name of the category of which this attribute value is an instance. |
| protected  [String](http://docs.google.com/java/lang/String.html)[] | [**getStringTable**](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html#getStringTable())()            Returns the string table for class SheetCollate. |

| **Methods inherited from class javax.print.attribute.**[**EnumSyntax**](http://docs.google.com/javax/print/attribute/EnumSyntax.html) |
| --- |
| [clone](http://docs.google.com/javax/print/attribute/EnumSyntax.html#clone()), [getOffset](http://docs.google.com/javax/print/attribute/EnumSyntax.html#getOffset()), [getValue](http://docs.google.com/javax/print/attribute/EnumSyntax.html#getValue()), [hashCode](http://docs.google.com/javax/print/attribute/EnumSyntax.html#hashCode()), [readResolve](http://docs.google.com/javax/print/attribute/EnumSyntax.html#readResolve()), [toString](http://docs.google.com/javax/print/attribute/EnumSyntax.html#toString()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [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()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [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** |
| --- |

### UNCOLLATED

public static final [SheetCollate](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html) **UNCOLLATED**

Sheets within a document appear in uncollated order when multiple copies are printed.

### COLLATED

public static final [SheetCollate](http://docs.google.com/javax/print/attribute/standard/SheetCollate.html) **COLLATED**

Sheets within a document appear in collated order when multiple copies are printed.

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

### SheetCollate

protected **SheetCollate**(int value)

Construct a new sheet collate enumeration value with the given integer value.

**Parameters:**value - Integer value.

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

### getStringTable

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

Returns the string table for class SheetCollate.

**Overrides:**[getStringTable](http://docs.google.com/javax/print/attribute/EnumSyntax.html#getStringTable()) in class [EnumSyntax](http://docs.google.com/javax/print/attribute/EnumSyntax.html) **Returns:**the string table

### getEnumValueTable

protected [EnumSyntax](http://docs.google.com/javax/print/attribute/EnumSyntax.html)[] **getEnumValueTable**()

Returns the enumeration value table for class SheetCollate.

**Overrides:**[getEnumValueTable](http://docs.google.com/javax/print/attribute/EnumSyntax.html#getEnumValueTable()) in class [EnumSyntax](http://docs.google.com/javax/print/attribute/EnumSyntax.html) **Returns:**the value table

### getCategory

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

Get the printing attribute class which is to be used as the "category" for this printing attribute value.

For class SheetCollate, the category is class SheetCollate itself.

**Specified by:**[getCategory](http://docs.google.com/javax/print/attribute/Attribute.html#getCategory()) in interface [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) **Returns:**Printing attribute class (category), an instance of class [java.lang.Class](http://docs.google.com/java/lang/Class.html).

### getName

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

Get the name of the category of which this attribute value is an instance.

For class SheetCollate, the category name is "sheet-collate".

**Specified by:**[getName](http://docs.google.com/javax/print/attribute/Attribute.html#getName()) in interface [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) **Returns:**Attribute category name.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SheetCollate.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/standard/Severity.html)   [**NEXT CLASS**](http://docs.google.com/javax/print/attribute/standard/Sides.html) | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute/standard/SheetCollate.html)    [**NO FRAMES**](http://docs.google.com/SheetCollate.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

[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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