| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Finishings.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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| [**PREV CLASS**](http://docs.google.com/javax/print/attribute/standard/Fidelity.html)   [**NEXT CLASS**](http://docs.google.com/javax/print/attribute/standard/JobHoldUntil.html) | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute/standard/Finishings.html)    [**NO FRAMES**](http://docs.google.com/Finishings.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#3as4poj) | [METHOD](#49x2ik5) |

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

Class Finishings

[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.Finishings**

**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 class **Finishings**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 Finishings is a printing attribute class, an enumeration, that identifies whether the printer applies a finishing operation of some kind of binding to each copy of each printed document in the job. For multidoc print jobs (jobs with multiple documents), the [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) attribute determines what constitutes a "copy" for purposes of finishing.

Standard Finishings values are:

|  | [NONE](http://docs.google.com/javax/print/attribute/standard/Finishings.html#NONE) | [STAPLE](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE) | [EDGE\_STITCH](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH) |
| --- | --- | --- | --- |
|  | [BIND](http://docs.google.com/javax/print/attribute/standard/Finishings.html#BIND) | [SADDLE\_STITCH](http://docs.google.com/javax/print/attribute/standard/Finishings.html#SADDLE_STITCH) | [COVER](http://docs.google.com/javax/print/attribute/standard/Finishings.html#COVER) |  |

The following Finishings values are more specific; they indicate a corner or an edge as if the document were a portrait document:

|  | [STAPLE\_TOP\_LEFT](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_TOP_LEFT) | [EDGE\_STITCH\_LEFT](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH_LEFT) | [STAPLE\_DUAL\_LEFT](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_DUAL_LEFT) |  |
| --- | --- | --- | --- | --- |
|  | [STAPLE\_BOTTOM\_LEFT](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_BOTTOM_LEFT) | [EDGE\_STITCH\_TOP](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH_TOP) | [STAPLE\_DUAL\_TOP](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_DUAL_TOP) |  |
|  | [STAPLE\_TOP\_RIGHT](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_TOP_RIGHT) | [EDGE\_STITCH\_RIGHT](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH_RIGHT) | [STAPLE\_DUAL\_RIGHT](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_DUAL_RIGHT) |  |
|  | [STAPLE\_BOTTOM\_RIGHT](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_BOTTOM_RIGHT) | [EDGE\_STITCH\_BOTTOM](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH_BOTTOM) | [STAPLE\_DUAL\_BOTTOM](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_DUAL_BOTTOM) |  |

The STAPLE\_*XXX* values are specified with respect to the document as if the document were a portrait document. If the document is actually a landscape or a reverse-landscape document, the client supplies the appropriate transformed value. For example, to position a staple in the upper left hand corner of a landscape document when held for reading, the client supplies the STAPLE\_BOTTOM\_LEFT value (since landscape is defined as a +90 degree rotation from portrait, i.e., anti-clockwise). On the other hand, to position a staple in the upper left hand corner of a reverse-landscape document when held for reading, the client supplies the STAPLE\_TOP\_RIGHT value (since reverse-landscape is defined as a -90 degree rotation from portrait, i.e., clockwise).

The angle (vertical, horizontal, angled) of each staple with respect to the document depends on the implementation which may in turn depend on the value of the attribute.

The effect of a Finishings attribute on a multidoc print job (a job with multiple documents) depends on whether all the docs have the same binding specified or whether different docs have different bindings 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 binding specified, then any value of [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) makes sense, and the printer's processing depends on the [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) value:
  + SINGLE\_DOCUMENT -- All the input docs will be bound together as one output document with the specified binding.
  + SINGLE\_DOCUMENT\_NEW\_SHEET -- All the input docs will be bound together as one output document with the specified binding, and the first impression of each input doc will always start on a new media sheet.
  + SEPARATE\_DOCUMENTS\_UNCOLLATED\_COPIES -- Each input doc will be bound separately with the specified binding.
  + SEPARATE\_DOCUMENTS\_COLLATED\_COPIES -- Each input doc will be bound separately with the specified binding.
* If different docs have different bindings specified, then only two values of [MultipleDocumentHandling](http://docs.google.com/javax/print/attribute/standard/MultipleDocumentHandling.html) make sense, and the printer reports an error when the job is submitted if any other value is specified:
  + SEPARATE\_DOCUMENTS\_UNCOLLATED\_COPIES -- Each input doc will be bound separately with its own specified binding.
  + SEPARATE\_DOCUMENTS\_COLLATED\_COPIES -- Each input doc will be bound separately with its own specified binding.

**IPP Compatibility:** Class Finishings encapsulates some of the IPP enum values that can be included in an IPP "finishings" attribute, which is a set of enums. The category name returned by getName() is the IPP attribute name. The enumeration's integer value is the IPP enum value. The toString() method returns the IPP string representation of the attribute value. In IPP Finishings is a multi-value attribute, this API currently allows only one binding to be specified.

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

| **Field Summary** | |
| --- | --- |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**BIND**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#BIND)            This value indicates that a binding is to be applied to the document; the type and placement of the binding is site-defined. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**COVER**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#COVER)            This value is specified when it is desired to select a non-printed (or pre-printed) cover for the document. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**EDGE\_STITCH**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH)            Bind the document(s) with one or more staples (wire stitches) along one edge. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**EDGE\_STITCH\_BOTTOM**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH_BOTTOM)            Bind the document(s) with one or more staples (wire stitches) along the bottom edge. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**EDGE\_STITCH\_LEFT**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH_LEFT)            Bind the document(s) with one or more staples (wire stitches) along the left edge. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**EDGE\_STITCH\_RIGHT**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH_RIGHT)            Bind the document(s) with one or more staples (wire stitches) along the right edge. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**EDGE\_STITCH\_TOP**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#EDGE_STITCH_TOP)            Bind the document(s) with one or more staples (wire stitches) along the top edge. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**NONE**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#NONE)            Perform no binding. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**SADDLE\_STITCH**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#SADDLE_STITCH)            Bind the document(s) with one or more staples (wire stitches) along the middle fold. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**STAPLE**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE)            Bind the document(s) with one or more staples. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**STAPLE\_BOTTOM\_LEFT**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_BOTTOM_LEFT)            Bind the document(s) with one or more staples in the bottom left corner. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**STAPLE\_BOTTOM\_RIGHT**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_BOTTOM_RIGHT)            Bind the document(s) with one or more staples in the bottom right corner. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**STAPLE\_DUAL\_BOTTOM**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_DUAL_BOTTOM)            Bind the document(s) with two staples (wire stitches) along the bottom edge assuming a portrait document (see above). |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**STAPLE\_DUAL\_LEFT**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_DUAL_LEFT)            Bind the document(s) with two staples (wire stitches) along the left edge assuming a portrait document (see above). |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**STAPLE\_DUAL\_RIGHT**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_DUAL_RIGHT)            Bind the document(s) with two staples (wire stitches) along the right edge assuming a portrait document (see above). |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**STAPLE\_DUAL\_TOP**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_DUAL_TOP)            Bind the document(s) with two staples (wire stitches) along the top edge assuming a portrait document (see above). |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**STAPLE\_TOP\_LEFT**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_TOP_LEFT)            Bind the document(s) with one or more staples in the top left corner. |
| static [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) | [**STAPLE\_TOP\_RIGHT**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#STAPLE_TOP_RIGHT)            Bind the document(s) with one or more staples in the top right corner. |

| **Constructor Summary** | |
| --- | --- |
| protected | [**Finishings**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#Finishings(int))(int value)            Construct a new finishings binding 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/Finishings.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/Finishings.html#getEnumValueTable())()            Returns the enumeration value table for class Finishings. |
| [String](http://docs.google.com/java/lang/String.html) | [**getName**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#getName())()            Get the name of the category of which this attribute value is an instance. |
| protected  int | [**getOffset**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#getOffset())()            Returns the lowest integer value used by class Finishings. |
| protected  [String](http://docs.google.com/java/lang/String.html)[] | [**getStringTable**](http://docs.google.com/javax/print/attribute/standard/Finishings.html#getStringTable())()            Returns the string table for class Finishings. |

| **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()), [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** |
| --- |

### NONE

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **NONE**

Perform no binding.

### STAPLE

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

Bind the document(s) with one or more staples. The exact number and placement of the staples is site-defined.

### COVER

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

This value is specified when it is desired to select a non-printed (or pre-printed) cover for the document. This does not supplant the specification of a printed cover (on cover stock medium) by the document itself.

### BIND

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

This value indicates that a binding is to be applied to the document; the type and placement of the binding is site-defined.

### SADDLE\_STITCH

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **SADDLE\_STITCH**

Bind the document(s) with one or more staples (wire stitches) along the middle fold. The exact number and placement of the staples and the middle fold is implementation- and/or site-defined.

### EDGE\_STITCH

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **EDGE\_STITCH**

Bind the document(s) with one or more staples (wire stitches) along one edge. The exact number and placement of the staples is implementation- and/or site- defined.

### STAPLE\_TOP\_LEFT

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **STAPLE\_TOP\_LEFT**

Bind the document(s) with one or more staples in the top left corner.

### STAPLE\_BOTTOM\_LEFT

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **STAPLE\_BOTTOM\_LEFT**

Bind the document(s) with one or more staples in the bottom left corner.

### STAPLE\_TOP\_RIGHT

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **STAPLE\_TOP\_RIGHT**

Bind the document(s) with one or more staples in the top right corner.

### STAPLE\_BOTTOM\_RIGHT

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **STAPLE\_BOTTOM\_RIGHT**

Bind the document(s) with one or more staples in the bottom right corner.

### EDGE\_STITCH\_LEFT

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **EDGE\_STITCH\_LEFT**

Bind the document(s) with one or more staples (wire stitches) along the left edge. The exact number and placement of the staples is implementation- and/or site-defined.

### EDGE\_STITCH\_TOP

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **EDGE\_STITCH\_TOP**

Bind the document(s) with one or more staples (wire stitches) along the top edge. The exact number and placement of the staples is implementation- and/or site-defined.

### EDGE\_STITCH\_RIGHT

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **EDGE\_STITCH\_RIGHT**

Bind the document(s) with one or more staples (wire stitches) along the right edge. The exact number and placement of the staples is implementation- and/or site-defined.

### EDGE\_STITCH\_BOTTOM

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **EDGE\_STITCH\_BOTTOM**

Bind the document(s) with one or more staples (wire stitches) along the bottom edge. The exact number and placement of the staples is implementation- and/or site-defined.

### STAPLE\_DUAL\_LEFT

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **STAPLE\_DUAL\_LEFT**

Bind the document(s) with two staples (wire stitches) along the left edge assuming a portrait document (see above).

### STAPLE\_DUAL\_TOP

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **STAPLE\_DUAL\_TOP**

Bind the document(s) with two staples (wire stitches) along the top edge assuming a portrait document (see above).

### STAPLE\_DUAL\_RIGHT

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **STAPLE\_DUAL\_RIGHT**

Bind the document(s) with two staples (wire stitches) along the right edge assuming a portrait document (see above).

### STAPLE\_DUAL\_BOTTOM

public static final [Finishings](http://docs.google.com/javax/print/attribute/standard/Finishings.html) **STAPLE\_DUAL\_BOTTOM**

Bind the document(s) with two staples (wire stitches) along the bottom edge assuming a portrait document (see above).

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

### Finishings

protected **Finishings**(int value)

Construct a new finishings binding 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 Finishings.

**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 Finishings.

**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

### getOffset

protected int **getOffset**()

Returns the lowest integer value used by class Finishings.

**Overrides:**[getOffset](http://docs.google.com/javax/print/attribute/EnumSyntax.html#getOffset()) in class [EnumSyntax](http://docs.google.com/javax/print/attribute/EnumSyntax.html) **Returns:**the offset of the lowest enumeration value.

### 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 Finishings and any vendor-defined subclasses, the category is class Finishings 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 Finishings and any vendor-defined subclasses, the category name is "finishings".

**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/Finishings.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/Fidelity.html)   [**NEXT CLASS**](http://docs.google.com/javax/print/attribute/standard/JobHoldUntil.html) | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute/standard/Finishings.html)    [**NO FRAMES**](http://docs.google.com/Finishings.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#3as4poj) | [METHOD](#49x2ik5) |

[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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