| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/print/attribute/AttributeSet.html) | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute//class-useAttributeSet.html)    [**NO FRAMES**](http://docs.google.com/AttributeSet.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Interface**

**javax.print.attribute.AttributeSet**

| Packages that use [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | |
| --- | --- |
| [**javax.print**](#3znysh7) | Provides the principal classes and interfaces for the JavaTM Print Service API. |
| [**javax.print.attribute**](#2et92p0) | Provides classes and interfaces that describe the types of JavaTM Print Service attributes and how they can be collected into attribute sets. |

| Uses of [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) in [javax.print](http://docs.google.com/javax/print/package-summary.html) | |
| --- | --- |

| Methods in [javax.print](http://docs.google.com/javax/print/package-summary.html) that return [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | |
| --- | --- |
| [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | **PrintService.**[**getUnsupportedAttributes**](http://docs.google.com/javax/print/PrintService.html#getUnsupportedAttributes(javax.print.DocFlavor,%20javax.print.attribute.AttributeSet))([DocFlavor](http://docs.google.com/javax/print/DocFlavor.html) flavor, [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Identifies the attributes that are unsupported for a print request in the context of a particular DocFlavor. |

| Methods in [javax.print](http://docs.google.com/javax/print/package-summary.html) with parameters of type [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | |
| --- | --- |
| abstract  [MultiDocPrintService](http://docs.google.com/javax/print/MultiDocPrintService.html)[] | **PrintServiceLookup.**[**getMultiDocPrintServices**](http://docs.google.com/javax/print/PrintServiceLookup.html#getMultiDocPrintServices(javax.print.DocFlavor%5B%5D,%20javax.print.attribute.AttributeSet))([DocFlavor](http://docs.google.com/javax/print/DocFlavor.html)[] flavors, [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Not called directly by applications. |
| abstract  [PrintService](http://docs.google.com/javax/print/PrintService.html)[] | **PrintServiceLookup.**[**getPrintServices**](http://docs.google.com/javax/print/PrintServiceLookup.html#getPrintServices(javax.print.DocFlavor,%20javax.print.attribute.AttributeSet))([DocFlavor](http://docs.google.com/javax/print/DocFlavor.html) flavor, [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Locates services that can be positively confirmed to support the combination of attributes and DocFlavors specified. |
| [Object](http://docs.google.com/java/lang/Object.html) | **PrintService.**[**getSupportedAttributeValues**](http://docs.google.com/javax/print/PrintService.html#getSupportedAttributeValues(java.lang.Class,%20javax.print.DocFlavor,%20javax.print.attribute.AttributeSet))([Class](http://docs.google.com/java/lang/Class.html)<? extends [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html)> category, [DocFlavor](http://docs.google.com/javax/print/DocFlavor.html) flavor, [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Determines the printing attribute values a client can specify in the given category when setting up a job for this print service. |
| [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | **PrintService.**[**getUnsupportedAttributes**](http://docs.google.com/javax/print/PrintService.html#getUnsupportedAttributes(javax.print.DocFlavor,%20javax.print.attribute.AttributeSet))([DocFlavor](http://docs.google.com/javax/print/DocFlavor.html) flavor, [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Identifies the attributes that are unsupported for a print request in the context of a particular DocFlavor. |
| boolean | **PrintService.**[**isAttributeValueSupported**](http://docs.google.com/javax/print/PrintService.html#isAttributeValueSupported(javax.print.attribute.Attribute,%20javax.print.DocFlavor,%20javax.print.attribute.AttributeSet))([Attribute](http://docs.google.com/javax/print/attribute/Attribute.html) attrval, [DocFlavor](http://docs.google.com/javax/print/DocFlavor.html) flavor, [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Determines whether a client can specify the given printing attribute value when setting up a job for this Print Service. |
| static [MultiDocPrintService](http://docs.google.com/javax/print/MultiDocPrintService.html)[] | **PrintServiceLookup.**[**lookupMultiDocPrintServices**](http://docs.google.com/javax/print/PrintServiceLookup.html#lookupMultiDocPrintServices(javax.print.DocFlavor%5B%5D,%20javax.print.attribute.AttributeSet))([DocFlavor](http://docs.google.com/javax/print/DocFlavor.html)[] flavors, [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Locates MultiDoc print Services capable of printing MultiDocs containing all the specified doc flavors. |
| static [PrintService](http://docs.google.com/javax/print/PrintService.html)[] | **PrintServiceLookup.**[**lookupPrintServices**](http://docs.google.com/javax/print/PrintServiceLookup.html#lookupPrintServices(javax.print.DocFlavor,%20javax.print.attribute.AttributeSet))([DocFlavor](http://docs.google.com/javax/print/DocFlavor.html) flavor, [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributes)            Locates print services capable of printing the specified [DocFlavor](http://docs.google.com/javax/print/DocFlavor.html). |

| Uses of [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) in [javax.print.attribute](http://docs.google.com/javax/print/attribute/package-summary.html) | |
| --- | --- |

| Subinterfaces of [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) in [javax.print.attribute](http://docs.google.com/javax/print/attribute/package-summary.html) | |
| --- | --- |
| interface | [**DocAttributeSet**](http://docs.google.com/javax/print/attribute/DocAttributeSet.html)            Interface DocAttributeSet specifies the interface for a set of doc attributes, i.e. |
| interface | [**PrintJobAttributeSet**](http://docs.google.com/javax/print/attribute/PrintJobAttributeSet.html)            Interface PrintJobAttributeSet specifies the interface for a set of print job attributes, i.e. |
| interface | [**PrintRequestAttributeSet**](http://docs.google.com/javax/print/attribute/PrintRequestAttributeSet.html)            Interface PrintRequestAttributeSet specifies the interface for a set of print request attributes, i.e. |
| interface | [**PrintServiceAttributeSet**](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html)            Interface PrintServiceAttributeSet specifies the interface for a set of print job attributes, i.e. |

| Classes in [javax.print.attribute](http://docs.google.com/javax/print/attribute/package-summary.html) that implement [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | |
| --- | --- |
| class | [**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html)            Class HashAttributeSet provides an AttributeSet implementation with characteristics of a hash map. |
| class | [**HashDocAttributeSet**](http://docs.google.com/javax/print/attribute/HashDocAttributeSet.html)            Class HashDocAttributeSet provides an attribute set which inherits its implementation from class [HashAttributeSet](http://docs.google.com/javax/print/attribute/HashAttributeSet.html) and enforces the semantic restrictions of interface [DocAttributeSet](http://docs.google.com/javax/print/attribute/DocAttributeSet.html). |
| class | [**HashPrintJobAttributeSet**](http://docs.google.com/javax/print/attribute/HashPrintJobAttributeSet.html)            Class HashPrintJobAttributeSet provides an attribute set which inherits its implementation from class [HashAttributeSet](http://docs.google.com/javax/print/attribute/HashAttributeSet.html) and enforces the semantic restrictions of interface [PrintJobAttributeSet](http://docs.google.com/javax/print/attribute/PrintJobAttributeSet.html). |
| class | [**HashPrintRequestAttributeSet**](http://docs.google.com/javax/print/attribute/HashPrintRequestAttributeSet.html)            Class HashPrintRequestAttributeSet inherits its implementation from class [HashAttributeSet](http://docs.google.com/javax/print/attribute/HashAttributeSet.html) and enforces the semantic restrictions of interface [PrintRequestAttributeSet](http://docs.google.com/javax/print/attribute/PrintRequestAttributeSet.html). |
| class | [**HashPrintServiceAttributeSet**](http://docs.google.com/javax/print/attribute/HashPrintServiceAttributeSet.html)            Class HashPrintServiceAttributeSet provides an attribute set which inherits its implementation from class [HashAttributeSet](http://docs.google.com/javax/print/attribute/HashAttributeSet.html) and enforces the semantic restrictions of interface [PrintServiceAttributeSet](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html). |

| Methods in [javax.print.attribute](http://docs.google.com/javax/print/attribute/package-summary.html) that return [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | |
| --- | --- |
| static [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | **AttributeSetUtilities.**[**synchronizedView**](http://docs.google.com/javax/print/attribute/AttributeSetUtilities.html#synchronizedView(javax.print.attribute.AttributeSet))([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributeSet)            Creates a synchronized view of the given attribute set. |
| static [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | **AttributeSetUtilities.**[**unmodifiableView**](http://docs.google.com/javax/print/attribute/AttributeSetUtilities.html#unmodifiableView(javax.print.attribute.AttributeSet))([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributeSet)            Creates an unmodifiable view of the given attribute set. |

| Methods in [javax.print.attribute](http://docs.google.com/javax/print/attribute/package-summary.html) with parameters of type [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | |
| --- | --- |
| boolean | **HashAttributeSet.**[**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. |
| boolean | **DocAttributeSet.**[**addAll**](http://docs.google.com/javax/print/attribute/DocAttributeSet.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. |
| boolean | **PrintJobAttributeSet.**[**addAll**](http://docs.google.com/javax/print/attribute/PrintJobAttributeSet.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. |
| boolean | **PrintServiceAttributeSet.**[**addAll**](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.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. |
| boolean | **AttributeSet.**[**addAll**](http://docs.google.com/javax/print/attribute/AttributeSet.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. |
| boolean | **PrintRequestAttributeSet.**[**addAll**](http://docs.google.com/javax/print/attribute/PrintRequestAttributeSet.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. |
| static [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | **AttributeSetUtilities.**[**synchronizedView**](http://docs.google.com/javax/print/attribute/AttributeSetUtilities.html#synchronizedView(javax.print.attribute.AttributeSet))([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributeSet)            Creates a synchronized view of the given attribute set. |
| static [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | **AttributeSetUtilities.**[**unmodifiableView**](http://docs.google.com/javax/print/attribute/AttributeSetUtilities.html#unmodifiableView(javax.print.attribute.AttributeSet))([AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) attributeSet)            Creates an unmodifiable view of the given attribute set. |

| Constructors in [javax.print.attribute](http://docs.google.com/javax/print/attribute/package-summary.html) with parameters of type [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html) | |
| --- | --- |
| [**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. |
| [**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. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/print/attribute/AttributeSet.html) | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute//class-useAttributeSet.html)    [**NO FRAMES**](http://docs.google.com/AttributeSet.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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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