| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MediaSize.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/MediaPrintableArea.html)   [**NEXT CLASS**](http://docs.google.com/javax/print/attribute/standard/MediaSize.Engineering.html) | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute/standard/MediaSize.html)    [**NO FRAMES**](http://docs.google.com/MediaSize.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#tyjcwt) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: FIELD | [CONSTR](#17dp8vu) | [METHOD](#1ksv4uv) |

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

Class MediaSize

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.print.attribute.Size2DSyntax](http://docs.google.com/javax/print/attribute/Size2DSyntax.html)  
 **javax.print.attribute.standard.MediaSize**

**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)

public class **MediaSize**extends [Size2DSyntax](http://docs.google.com/javax/print/attribute/Size2DSyntax.html)implements [Attribute](http://docs.google.com/javax/print/attribute/Attribute.html)

Class MediaSize is a two-dimensional size valued printing attribute class that indicates the dimensions of the medium in a portrait orientation, with the X dimension running along the bottom edge and the Y dimension running along the left edge. Thus, the Y dimension must be greater than or equal to the X dimension. Class MediaSize declares many standard media size values, organized into nested classes for ISO, JIS, North American, engineering, and other media.

MediaSize is not yet used to specify media. Its current role is as a mapping for named media (see [MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html)). Clients can use the mapping method MediaSize.getMediaSizeForName(MediaSizeName) to find the physical dimensions of the MediaSizeName instances enumerated in this API. This is useful for clients which need this information to format & paginate printing.

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

| **Nested Class Summary** | |
| --- | --- |
| static class | [**MediaSize.Engineering**](http://docs.google.com/javax/print/attribute/standard/MediaSize.Engineering.html)            Class MediaSize.Engineering includes [MediaSize](http://docs.google.com/javax/print/attribute/standard/MediaSize.html) values for engineering media. |
| static class | [**MediaSize.ISO**](http://docs.google.com/javax/print/attribute/standard/MediaSize.ISO.html)            Class MediaSize.ISO includes [MediaSize](http://docs.google.com/javax/print/attribute/standard/MediaSize.html) values for ISO media. |
| static class | [**MediaSize.JIS**](http://docs.google.com/javax/print/attribute/standard/MediaSize.JIS.html)            Class MediaSize.JIS includes [MediaSize](http://docs.google.com/javax/print/attribute/standard/MediaSize.html) values for JIS (Japanese) media. |
| static class | [**MediaSize.NA**](http://docs.google.com/javax/print/attribute/standard/MediaSize.NA.html)            Class MediaSize.NA includes [MediaSize](http://docs.google.com/javax/print/attribute/standard/MediaSize.html) values for North American media. |
| static class | [**MediaSize.Other**](http://docs.google.com/javax/print/attribute/standard/MediaSize.Other.html)            Class MediaSize.Other includes [MediaSize](http://docs.google.com/javax/print/attribute/standard/MediaSize.html) values for miscellaneous media. |

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class javax.print.attribute.**[**Size2DSyntax**](http://docs.google.com/javax/print/attribute/Size2DSyntax.html) |
| --- |
| [INCH](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#INCH), [MM](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#MM) |

| **Constructor Summary** | |
| --- | --- |
| [**MediaSize**](http://docs.google.com/javax/print/attribute/standard/MediaSize.html#MediaSize(float,%20float,%20int))(float x, float y, int units)            Construct a new media size attribute from the given floating-point values. |
| [**MediaSize**](http://docs.google.com/javax/print/attribute/standard/MediaSize.html#MediaSize(float,%20float,%20int,%20javax.print.attribute.standard.MediaSizeName))(float x, float y, int units, [MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) media)            Construct a new media size attribute from the given floating-point values. |
| [**MediaSize**](http://docs.google.com/javax/print/attribute/standard/MediaSize.html#MediaSize(int,%20int,%20int))(int x, int y, int units)            Construct a new media size attribute from the given integer values. |
| [**MediaSize**](http://docs.google.com/javax/print/attribute/standard/MediaSize.html#MediaSize(int,%20int,%20int,%20javax.print.attribute.standard.MediaSizeName))(int x, int y, int units, [MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) media)            Construct a new media size attribute from the given integer values. |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/javax/print/attribute/standard/MediaSize.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) object)            Returns whether this media size attribute is equivalent to the passed in object. |
| static [MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) | [**findMedia**](http://docs.google.com/javax/print/attribute/standard/MediaSize.html#findMedia(float,%20float,%20int))(float x, float y, int units)            The specified dimensions are used to locate a matching MediaSize instance from amongst all the standard MediaSize instances. |
| [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/MediaSize.html#getCategory())()            Get the printing attribute class which is to be used as the "category" for this printing attribute value. |
| static [MediaSize](http://docs.google.com/javax/print/attribute/standard/MediaSize.html) | [**getMediaSizeForName**](http://docs.google.com/javax/print/attribute/standard/MediaSize.html#getMediaSizeForName(javax.print.attribute.standard.MediaSizeName))([MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) media)            Get the MediaSize for the specified named media. |
| [MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) | [**getMediaSizeName**](http://docs.google.com/javax/print/attribute/standard/MediaSize.html#getMediaSizeName())()            Get the media name, if any, for this size. |
| [String](http://docs.google.com/java/lang/String.html) | [**getName**](http://docs.google.com/javax/print/attribute/standard/MediaSize.html#getName())()            Get the name of the category of which this attribute value is an instance. |

| **Methods inherited from class javax.print.attribute.**[**Size2DSyntax**](http://docs.google.com/javax/print/attribute/Size2DSyntax.html) |
| --- |
| [getSize](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#getSize(int)), [getX](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#getX(int)), [getXMicrometers](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#getXMicrometers()), [getY](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#getY(int)), [getYMicrometers](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#getYMicrometers()), [hashCode](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#hashCode()), [toString](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#toString()), [toString](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#toString(int,%20java.lang.String)) |

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

### MediaSize

public **MediaSize**(float x,  
 float y,  
 int units)

Construct a new media size attribute from the given floating-point values.

**Parameters:**x - X dimension.y - Y dimension.units - Unit conversion factor, e.g. Size2DSyntax.INCH or Size2DSyntax.MM. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - (Unchecked exception) Thrown if x < 0 or y < 0 or units < 1 or x > y.

### MediaSize

public **MediaSize**(int x,  
 int y,  
 int units)

Construct a new media size attribute from the given integer values.

**Parameters:**x - X dimension.y - Y dimension.units - Unit conversion factor, e.g. Size2DSyntax.INCH or Size2DSyntax.MM. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - (Unchecked exception) Thrown if x < 0 or y < 0 or units < 1 or x > y.

### MediaSize

public **MediaSize**(float x,  
 float y,  
 int units,  
 [MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) media)

Construct a new media size attribute from the given floating-point values.

**Parameters:**x - X dimension.y - Y dimension.units - Unit conversion factor, e.g. Size2DSyntax.INCH or Size2DSyntax.MM.media - a media name to associate with this MediaSize **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - (Unchecked exception) Thrown if x < 0 or y < 0 or units < 1 or x > y.

### MediaSize

public **MediaSize**(int x,  
 int y,  
 int units,  
 [MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) media)

Construct a new media size attribute from the given integer values.

**Parameters:**x - X dimension.y - Y dimension.units - Unit conversion factor, e.g. Size2DSyntax.INCH or Size2DSyntax.MM.media - a media name to associate with this MediaSize **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - (Unchecked exception) Thrown if x < 0 or y < 0 or units < 1 or x > y.

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

### getMediaSizeName

public [MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) **getMediaSizeName**()

Get the media name, if any, for this size.

**Returns:**the name for this media size, or null if no name was associated with this size (an anonymous size).

### getMediaSizeForName

public static [MediaSize](http://docs.google.com/javax/print/attribute/standard/MediaSize.html) **getMediaSizeForName**([MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) media)

Get the MediaSize for the specified named media.

**Parameters:**media - - the name of the media for which the size is sought **Returns:**size of the media, or null if this media is not associated with any size.

### findMedia

public static [MediaSizeName](http://docs.google.com/javax/print/attribute/standard/MediaSizeName.html) **findMedia**(float x,  
 float y,  
 int units)

The specified dimensions are used to locate a matching MediaSize instance from amongst all the standard MediaSize instances. If there is no exact match, the closest match is used.

The MediaSize is in turn used to locate the MediaSizeName object. This method may return null if the closest matching MediaSize has no corresponding Media instance.

This method is useful for clients which have only dimensions and want to find a Media which corresponds to the dimensions.

**Parameters:**x - - X dimensiony - - Y dimension.units - Unit conversion factor, e.g. Size2DSyntax.INCH or Size2DSyntax.MM **Returns:**MediaSizeName matching these dimensions, or null. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if x <= 0, y <= 0, or units < 1

### equals

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

Returns whether this media size attribute is equivalent to the passed in object. To be equivalent, all of the following conditions must be true:

1. object is not null.
2. object is an instance of class MediaSize.
3. This media size attribute's X dimension is equal to object's X dimension.
4. This media size attribute's Y dimension is equal to object's Y dimension.

**Overrides:**[equals](http://docs.google.com/javax/print/attribute/Size2DSyntax.html#equals(java.lang.Object)) in class [Size2DSyntax](http://docs.google.com/javax/print/attribute/Size2DSyntax.html) **Parameters:**object - Object to compare to. **Returns:**True if object is equivalent to this media size attribute, false otherwise.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### 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 MediaSize and any vendor-defined subclasses, the category is class MediaSize 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 MediaSize and any vendor-defined subclasses, the category name is "media-size".

**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/MediaSize.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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[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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