| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ImageGraphicAttribute.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/java/awt/font/GraphicAttribute.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/font/LayoutPath.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/font/ImageGraphicAttribute.html)    [**NO FRAMES**](http://docs.google.com/ImageGraphicAttribute.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

## **java.awt.font**

Class ImageGraphicAttribute

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.awt.font.GraphicAttribute](http://docs.google.com/java/awt/font/GraphicAttribute.html)  
 **java.awt.font.ImageGraphicAttribute**

public final class **ImageGraphicAttribute**extends [GraphicAttribute](http://docs.google.com/java/awt/font/GraphicAttribute.html)

The ImageGraphicAttribute class is an implementation of [GraphicAttribute](http://docs.google.com/java/awt/font/GraphicAttribute.html) which draws images in a [TextLayout](http://docs.google.com/java/awt/font/TextLayout.html).

**See Also:**[GraphicAttribute](http://docs.google.com/java/awt/font/GraphicAttribute.html)

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

| **Fields inherited from class java.awt.font.**[**GraphicAttribute**](http://docs.google.com/java/awt/font/GraphicAttribute.html) |
| --- |
| [BOTTOM\_ALIGNMENT](http://docs.google.com/java/awt/font/GraphicAttribute.html#BOTTOM_ALIGNMENT), [CENTER\_BASELINE](http://docs.google.com/java/awt/font/GraphicAttribute.html#CENTER_BASELINE), [HANGING\_BASELINE](http://docs.google.com/java/awt/font/GraphicAttribute.html#HANGING_BASELINE), [ROMAN\_BASELINE](http://docs.google.com/java/awt/font/GraphicAttribute.html#ROMAN_BASELINE), [TOP\_ALIGNMENT](http://docs.google.com/java/awt/font/GraphicAttribute.html#TOP_ALIGNMENT) |

| **Constructor Summary** | |
| --- | --- |
| [**ImageGraphicAttribute**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#ImageGraphicAttribute(java.awt.Image,%20int))([Image](http://docs.google.com/java/awt/Image.html) image, int alignment)            Constucts an ImageGraphicAttribute from the specified [Image](http://docs.google.com/java/awt/Image.html). |
| [**ImageGraphicAttribute**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#ImageGraphicAttribute(java.awt.Image,%20int,%20float,%20float))([Image](http://docs.google.com/java/awt/Image.html) image, int alignment, float originX, float originY)            Constructs an ImageGraphicAttribute from the specified Image. |

| **Method Summary** | |
| --- | --- |
| void | [**draw**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#draw(java.awt.Graphics2D,%20float,%20float))([Graphics2D](http://docs.google.com/java/awt/Graphics2D.html) graphics, float x, float y)            Renders this GraphicAttribute at the specified location. |
| boolean | [**equals**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#equals(java.awt.font.ImageGraphicAttribute))([ImageGraphicAttribute](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html) rhs)            Compares this ImageGraphicAttribute to the specified ImageGraphicAttribute. |
| boolean | [**equals**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) rhs)            Compares this ImageGraphicAttribute to the specified [Object](http://docs.google.com/java/lang/Object.html). |
| float | [**getAdvance**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#getAdvance())()            Returns the advance of this ImageGraphicAttribute. |
| float | [**getAscent**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#getAscent())()            Returns the ascent of this ImageGraphicAttribute. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | [**getBounds**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#getBounds())()            Returns a [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) that encloses all of the bits rendered by this ImageGraphicAttribute, relative to the rendering position. |
| float | [**getDescent**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#getDescent())()            Returns the descent of this ImageGraphicAttribute. |
| int | [**hashCode**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#hashCode())()            Returns a hashcode for this ImageGraphicAttribute. |

| **Methods inherited from class java.awt.font.**[**GraphicAttribute**](http://docs.google.com/java/awt/font/GraphicAttribute.html) |
| --- |
| [getAlignment](http://docs.google.com/java/awt/font/GraphicAttribute.html#getAlignment()), [getJustificationInfo](http://docs.google.com/java/awt/font/GraphicAttribute.html#getJustificationInfo()), [getOutline](http://docs.google.com/java/awt/font/GraphicAttribute.html#getOutline(java.awt.geom.AffineTransform)) |

| **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** |
| --- |

### ImageGraphicAttribute

public **ImageGraphicAttribute**([Image](http://docs.google.com/java/awt/Image.html) image,  
 int alignment)

Constucts an ImageGraphicAttribute from the specified [Image](http://docs.google.com/java/awt/Image.html). The origin is at (0, 0).

**Parameters:**image - the Image rendered by this ImageGraphicAttribute. This object keeps a reference to image.alignment - one of the alignments from this ImageGraphicAttribute

### ImageGraphicAttribute

public **ImageGraphicAttribute**([Image](http://docs.google.com/java/awt/Image.html) image,  
 int alignment,  
 float originX,  
 float originY)

Constructs an ImageGraphicAttribute from the specified Image. The point (originX, originY) in the Image appears at the origin of the ImageGraphicAttribute within the text.

**Parameters:**image - the Image rendered by this ImageGraphicAttribute. This object keeps a reference to image.alignment - one of the alignments from this ImageGraphicAttributeoriginX - the X coordinate of the point within the Image that appears at the origin of the ImageGraphicAttribute in the text line.originY - the Y coordinate of the point within the Image that appears at the origin of the ImageGraphicAttribute in the text line.

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

### getAscent

public float **getAscent**()

Returns the ascent of this ImageGraphicAttribute. The ascent of an ImageGraphicAttribute is the distance from the top of the image to the origin.

**Specified by:**[getAscent](http://docs.google.com/java/awt/font/GraphicAttribute.html#getAscent()) in class [GraphicAttribute](http://docs.google.com/java/awt/font/GraphicAttribute.html) **Returns:**the ascent of this ImageGraphicAttribute.**See Also:**[GraphicAttribute.getBounds()](http://docs.google.com/java/awt/font/GraphicAttribute.html#getBounds())

### getDescent

public float **getDescent**()

Returns the descent of this ImageGraphicAttribute. The descent of an ImageGraphicAttribute is the distance from the origin to the bottom of the image.

**Specified by:**[getDescent](http://docs.google.com/java/awt/font/GraphicAttribute.html#getDescent()) in class [GraphicAttribute](http://docs.google.com/java/awt/font/GraphicAttribute.html) **Returns:**the descent of this ImageGraphicAttribute.**See Also:**[GraphicAttribute.getBounds()](http://docs.google.com/java/awt/font/GraphicAttribute.html#getBounds())

### getAdvance

public float **getAdvance**()

Returns the advance of this ImageGraphicAttribute. The advance of an ImageGraphicAttribute is the distance from the origin to the right edge of the image.

**Specified by:**[getAdvance](http://docs.google.com/java/awt/font/GraphicAttribute.html#getAdvance()) in class [GraphicAttribute](http://docs.google.com/java/awt/font/GraphicAttribute.html) **Returns:**the advance of this ImageGraphicAttribute.**See Also:**[GraphicAttribute.getBounds()](http://docs.google.com/java/awt/font/GraphicAttribute.html#getBounds())

### getBounds

public [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) **getBounds**()

Returns a [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) that encloses all of the bits rendered by this ImageGraphicAttribute, relative to the rendering position. A graphic can be rendered beyond its origin, ascent, descent, or advance; but if it is, this method's implementation must indicate where the graphic is rendered.

**Overrides:**[getBounds](http://docs.google.com/java/awt/font/GraphicAttribute.html#getBounds()) in class [GraphicAttribute](http://docs.google.com/java/awt/font/GraphicAttribute.html) **Returns:**a Rectangle2D that encloses all of the bits rendered by this ImageGraphicAttribute.

### draw

public void **draw**([Graphics2D](http://docs.google.com/java/awt/Graphics2D.html) graphics,  
 float x,  
 float y)

Renders this GraphicAttribute at the specified location.

**Specified by:**[draw](http://docs.google.com/java/awt/font/GraphicAttribute.html#draw(java.awt.Graphics2D,%20float,%20float)) in class [GraphicAttribute](http://docs.google.com/java/awt/font/GraphicAttribute.html) **Parameters:**graphics - the [Graphics2D](http://docs.google.com/java/awt/Graphics2D.html) into which to render the graphicx - the user-space X coordinate where the graphic is renderedy - the user-space Y coordinate where the graphic is rendered

### hashCode

public int **hashCode**()

Returns a hashcode for this ImageGraphicAttribute.

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hash code value for this object.**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)

### equals

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

Compares this ImageGraphicAttribute to the specified [Object](http://docs.google.com/java/lang/Object.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:**rhs - the Object to compare for equality **Returns:**true if this ImageGraphicAttribute equals rhs; false otherwise.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### equals

public boolean **equals**([ImageGraphicAttribute](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html) rhs)

Compares this ImageGraphicAttribute to the specified ImageGraphicAttribute.

**Parameters:**rhs - the ImageGraphicAttribute to compare for equality **Returns:**true if this ImageGraphicAttribute equals rhs; false otherwise.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ImageGraphicAttribute.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/java/awt/font/GraphicAttribute.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/font/LayoutPath.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/font/ImageGraphicAttribute.html)    [**NO FRAMES**](http://docs.google.com/ImageGraphicAttribute.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#26in1rg) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).