| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/image/RenderedImage.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*** |
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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/awt/image//class-useRenderedImage.html)    [**NO FRAMES**](http://docs.google.com/RenderedImage.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Interface**

**java.awt.image.RenderedImage**

| Packages that use [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
| --- | --- |
| [**java.awt**](#3znysh7) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.image**](#2et92p0) | Provides classes for creating and modifying images. |
| [**java.awt.image.renderable**](#tyjcwt) | Provides classes and interfaces for producing rendering-independent images. |
| [**javax.imageio**](#3dy6vkm) | The main package of the Java Image I/O API. |
| [**javax.imageio.spi**](#1t3h5sf) | A package of the Java Image I/O API containing the plug-in interfaces for readers, writers, transcoders, and streams, and a runtime registry. |

| Uses of [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) in [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
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| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
| --- | --- |
| abstract  void | **Graphics2D.**[**drawRenderedImage**](http://docs.google.com/java/awt/Graphics2D.html#drawRenderedImage(java.awt.image.RenderedImage,%20java.awt.geom.AffineTransform))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) img, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform)            Renders a [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html), applying a transform from image space into user space before drawing. |

| Uses of [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| Subinterfaces of [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
| --- | --- |
| interface | [**WritableRenderedImage**](http://docs.google.com/java/awt/image/WritableRenderedImage.html)            WriteableRenderedImage is a common interface for objects which contain or can produce image data in the form of Rasters and which can be modified and/or written over. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) that implement [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
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| class | [**BufferedImage**](http://docs.google.com/java/awt/image/BufferedImage.html)            The BufferedImage subclass describes an [Image](http://docs.google.com/java/awt/Image.html) with an accessible buffer of image data. |

| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) that return types with arguments of type [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
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| [Vector](http://docs.google.com/java/util/Vector.html)<[RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html)> | **BufferedImage.**[**getSources**](http://docs.google.com/java/awt/image/BufferedImage.html#getSources())()            Returns a [Vector](http://docs.google.com/java/util/Vector.html) of [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) objects that are the immediate sources, not the sources of these immediate sources, of image data for this BufferedImage. |
| [Vector](http://docs.google.com/java/util/Vector.html)<[RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html)> | **RenderedImage.**[**getSources**](http://docs.google.com/java/awt/image/RenderedImage.html#getSources())()            Returns a vector of RenderedImages that are the immediate sources of image data for this RenderedImage. |

| Uses of [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) in [java.awt.image.renderable](http://docs.google.com/java/awt/image/renderable/package-summary.html) | |
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| Methods in [java.awt.image.renderable](http://docs.google.com/java/awt/image/renderable/package-summary.html) that return [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
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| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **RenderedImageFactory.**[**create**](http://docs.google.com/java/awt/image/renderable/RenderedImageFactory.html#create(java.awt.image.renderable.ParameterBlock,%20java.awt.RenderingHints))([ParameterBlock](http://docs.google.com/java/awt/image/renderable/ParameterBlock.html) paramBlock, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates a RenderedImage representing the results of an imaging operation (or chain of operations) for a given ParameterBlock and RenderingHints. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **ContextualRenderedImageFactory.**[**create**](http://docs.google.com/java/awt/image/renderable/ContextualRenderedImageFactory.html#create(java.awt.image.renderable.RenderContext,%20java.awt.image.renderable.ParameterBlock))([RenderContext](http://docs.google.com/java/awt/image/renderable/RenderContext.html) renderContext, [ParameterBlock](http://docs.google.com/java/awt/image/renderable/ParameterBlock.html) paramBlock)            Creates a rendering, given a RenderContext and a ParameterBlock containing the operation's sources and parameters. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **RenderableImageOp.**[**createDefaultRendering**](http://docs.google.com/java/awt/image/renderable/RenderableImageOp.html#createDefaultRendering())()            Gets a RenderedImage instance of this image with a default width and height in pixels. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **RenderableImage.**[**createDefaultRendering**](http://docs.google.com/java/awt/image/renderable/RenderableImage.html#createDefaultRendering())()            Returnd a RenderedImage instance of this image with a default width and height in pixels. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **RenderableImageOp.**[**createRendering**](http://docs.google.com/java/awt/image/renderable/RenderableImageOp.html#createRendering(java.awt.image.renderable.RenderContext))([RenderContext](http://docs.google.com/java/awt/image/renderable/RenderContext.html) renderContext)            Creates a RenderedImage which represents this RenderableImageOp (including its Renderable sources) rendered according to the given RenderContext. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **RenderableImage.**[**createRendering**](http://docs.google.com/java/awt/image/renderable/RenderableImage.html#createRendering(java.awt.image.renderable.RenderContext))([RenderContext](http://docs.google.com/java/awt/image/renderable/RenderContext.html) renderContext)            Creates a RenderedImage that represented a rendering of this image using a given RenderContext. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **RenderableImageOp.**[**createScaledRendering**](http://docs.google.com/java/awt/image/renderable/RenderableImageOp.html#createScaledRendering(int,%20int,%20java.awt.RenderingHints))(int w, int h, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates a RenderedImage instance of this image with width w, and height h in pixels. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **RenderableImage.**[**createScaledRendering**](http://docs.google.com/java/awt/image/renderable/RenderableImage.html#createScaledRendering(int,%20int,%20java.awt.RenderingHints))(int w, int h, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates a RenderedImage instance of this image with width w, and height h in pixels. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **ParameterBlock.**[**getRenderedSource**](http://docs.google.com/java/awt/image/renderable/ParameterBlock.html#getRenderedSource(int))(int index)            Returns a source as a RenderedImage. |

| Uses of [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) | |
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| Fields in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) declared as [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
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| protected  [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **IIOImage.**[**image**](http://docs.google.com/javax/imageio/IIOImage.html#image)            The RenderedImage being referenced. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) that return [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
| --- | --- |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **IIOImage.**[**getRenderedImage**](http://docs.google.com/javax/imageio/IIOImage.html#getRenderedImage())()            Returns the currently set RenderedImage, or null if only a Raster is available. |
| [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | **ImageReader.**[**readAsRenderedImage**](http://docs.google.com/javax/imageio/ImageReader.html#readAsRenderedImage(int,%20javax.imageio.ImageReadParam))(int imageIndex, [ImageReadParam](http://docs.google.com/javax/imageio/ImageReadParam.html) param)            Returns a RenderedImage object that contains the contents of the image indexed by imageIndex. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) with parameters of type [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
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| static [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) | **ImageTypeSpecifier.**[**createFromRenderedImage**](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html#createFromRenderedImage(java.awt.image.RenderedImage))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) image)            Returns an ImageTypeSpecifier that encodes the layout of a RenderedImage (which may be a BufferedImage). |
| void | **ImageWriter.**[**replacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#replacePixels(java.awt.image.RenderedImage,%20javax.imageio.ImageWriteParam))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) image, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Replaces a portion of an image already present in the output with a portion of the given image. |
| void | **IIOImage.**[**setRenderedImage**](http://docs.google.com/javax/imageio/IIOImage.html#setRenderedImage(java.awt.image.RenderedImage))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) image)            Sets the current RenderedImage. |
| void | **ImageWriter.**[**write**](http://docs.google.com/javax/imageio/ImageWriter.html#write(java.awt.image.RenderedImage))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) image)            Appends a complete image stream consisting of a single image with default metadata and thumbnails to the output. |
| static boolean | **ImageIO.**[**write**](http://docs.google.com/javax/imageio/ImageIO.html#write(java.awt.image.RenderedImage,%20java.lang.String,%20java.io.File))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) im, [String](http://docs.google.com/java/lang/String.html) formatName, [File](http://docs.google.com/java/io/File.html) output)            Writes an image using an arbitrary ImageWriter that supports the given format to a File. |
| static boolean | **ImageIO.**[**write**](http://docs.google.com/javax/imageio/ImageIO.html#write(java.awt.image.RenderedImage,%20java.lang.String,%20javax.imageio.stream.ImageOutputStream))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) im, [String](http://docs.google.com/java/lang/String.html) formatName, [ImageOutputStream](http://docs.google.com/javax/imageio/stream/ImageOutputStream.html) output)            Writes an image using the an arbitrary ImageWriter that supports the given format to an ImageOutputStream. |
| static boolean | **ImageIO.**[**write**](http://docs.google.com/javax/imageio/ImageIO.html#write(java.awt.image.RenderedImage,%20java.lang.String,%20java.io.OutputStream))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) im, [String](http://docs.google.com/java/lang/String.html) formatName, [OutputStream](http://docs.google.com/java/io/OutputStream.html) output)            Writes an image using an arbitrary ImageWriter that supports the given format to an OutputStream. |

| Constructors in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) with parameters of type [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
| --- | --- |
| [**IIOImage**](http://docs.google.com/javax/imageio/IIOImage.html#IIOImage(java.awt.image.RenderedImage,%20java.util.List,%20javax.imageio.metadata.IIOMetadata))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) image, [List](http://docs.google.com/java/util/List.html)<? extends [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html)> thumbnails, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) metadata)            Constructs an IIOImage containing a RenderedImage, and thumbnails and metadata associated with it. |
| [**ImageTypeSpecifier**](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html#ImageTypeSpecifier(java.awt.image.RenderedImage))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) image)            Constructs an ImageTypeSpecifier from a RenderedImage. |

| Uses of [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) in [javax.imageio.spi](http://docs.google.com/javax/imageio/spi/package-summary.html) | |
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| Methods in [javax.imageio.spi](http://docs.google.com/javax/imageio/spi/package-summary.html) with parameters of type [RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) | |
| --- | --- |
| boolean | **ImageWriterSpi.**[**canEncodeImage**](http://docs.google.com/javax/imageio/spi/ImageWriterSpi.html#canEncodeImage(java.awt.image.RenderedImage))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) im)            Returns true if the ImageWriter implementation associated with this service provider is able to encode the given RenderedImage instance. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/image/RenderedImage.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?java/awt/image//class-useRenderedImage.html)    [**NO FRAMES**](http://docs.google.com/RenderedImage.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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