| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/image/WritableRaster.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-useWritableRaster.html)    [**NO FRAMES**](http://docs.google.com/WritableRaster.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.awt.image.WritableRaster**

| Packages that use [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | |
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| [**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. |

| Uses of [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.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 [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | |
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| void | **CompositeContext.**[**compose**](http://docs.google.com/java/awt/CompositeContext.html#compose(java.awt.image.Raster,%20java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [Raster](http://docs.google.com/java/awt/image/Raster.html) dstIn, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dstOut)            Composes the two source [Raster](http://docs.google.com/java/awt/image/Raster.html) objects and places the result in the destination [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html). |

| Uses of [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) that return [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | |
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| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **BufferedImage.**[**copyData**](http://docs.google.com/java/awt/image/BufferedImage.html#copyData(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) outRaster)            Computes an arbitrary rectangular region of the BufferedImage and copies it into a specified WritableRaster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **RenderedImage.**[**copyData**](http://docs.google.com/java/awt/image/RenderedImage.html#copyData(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster)            Computes an arbitrary rectangular region of the RenderedImage and copies it into a caller-supplied WritableRaster. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createBandedRaster**](http://docs.google.com/java/awt/image/Raster.html#createBandedRaster(java.awt.image.DataBuffer,%20int,%20int,%20int,%20int%5B%5D,%20int%5B%5D,%20java.awt.Point))([DataBuffer](http://docs.google.com/java/awt/image/DataBuffer.html) dataBuffer, int w, int h, int scanlineStride, int[] bankIndices, int[] bandOffsets, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a BandedSampleModel with the specified DataBuffer, width, height, scanline stride, bank indices, and band offsets. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createBandedRaster**](http://docs.google.com/java/awt/image/Raster.html#createBandedRaster(int,%20int,%20int,%20int,%20int%5B%5D,%20int%5B%5D,%20java.awt.Point))(int dataType, int w, int h, int scanlineStride, int[] bankIndices, int[] bandOffsets, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a BandedSampleModel with the specified data type, width, height, scanline stride, bank indices and band offsets. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createBandedRaster**](http://docs.google.com/java/awt/image/Raster.html#createBandedRaster(int,%20int,%20int,%20int,%20java.awt.Point))(int dataType, int w, int h, int bands, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a BandedSampleModel with the specified data type, width, height, and number of bands. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **RescaleOp.**[**createCompatibleDestRaster**](http://docs.google.com/java/awt/image/RescaleOp.html#createCompatibleDestRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Creates a zeroed-destination Raster with the correct size and number of bands, given this source. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **LookupOp.**[**createCompatibleDestRaster**](http://docs.google.com/java/awt/image/LookupOp.html#createCompatibleDestRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Creates a zeroed-destination Raster with the correct size and number of bands, given this source. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ConvolveOp.**[**createCompatibleDestRaster**](http://docs.google.com/java/awt/image/ConvolveOp.html#createCompatibleDestRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Creates a zeroed destination Raster with the correct size and number of bands, given this source. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ColorConvertOp.**[**createCompatibleDestRaster**](http://docs.google.com/java/awt/image/ColorConvertOp.html#createCompatibleDestRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Creates a zeroed destination Raster with the correct size and number of bands, given this source. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **BandCombineOp.**[**createCompatibleDestRaster**](http://docs.google.com/java/awt/image/BandCombineOp.html#createCompatibleDestRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Creates a zeroed destination Raster with the correct size and number of bands. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **RasterOp.**[**createCompatibleDestRaster**](http://docs.google.com/java/awt/image/RasterOp.html#createCompatibleDestRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Creates a zeroed destination Raster with the correct size and number of bands. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **AffineTransformOp.**[**createCompatibleDestRaster**](http://docs.google.com/java/awt/image/AffineTransformOp.html#createCompatibleDestRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Creates a zeroed destination Raster with the correct size and number of bands. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createCompatibleWritableRaster**](http://docs.google.com/java/awt/image/Raster.html#createCompatibleWritableRaster())()            Create a compatible WritableRaster the same size as this Raster with the same SampleModel and a new initialized DataBuffer. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **DirectColorModel.**[**createCompatibleWritableRaster**](http://docs.google.com/java/awt/image/DirectColorModel.html#createCompatibleWritableRaster(int,%20int))(int w, int h)            Creates a WritableRaster with the specified width and height that has a data layout (SampleModel) compatible with this ColorModel. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ComponentColorModel.**[**createCompatibleWritableRaster**](http://docs.google.com/java/awt/image/ComponentColorModel.html#createCompatibleWritableRaster(int,%20int))(int w, int h)            Creates a WritableRaster with the specified width and height, that has a data layout (SampleModel) compatible with this ColorModel. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **IndexColorModel.**[**createCompatibleWritableRaster**](http://docs.google.com/java/awt/image/IndexColorModel.html#createCompatibleWritableRaster(int,%20int))(int w, int h)            Creates a WritableRaster with the specified width and height that has a data layout (SampleModel) compatible with this ColorModel. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createCompatibleWritableRaster**](http://docs.google.com/java/awt/image/Raster.html#createCompatibleWritableRaster(int,%20int))(int w, int h)            Create a compatible WritableRaster with the specified size, a new SampleModel, and a new initialized DataBuffer. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ColorModel.**[**createCompatibleWritableRaster**](http://docs.google.com/java/awt/image/ColorModel.html#createCompatibleWritableRaster(int,%20int))(int w, int h)            Creates a WritableRaster with the specified width and height that has a data layout (SampleModel) compatible with this ColorModel. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createCompatibleWritableRaster**](http://docs.google.com/java/awt/image/Raster.html#createCompatibleWritableRaster(int,%20int,%20int,%20int))(int x, int y, int w, int h)            Create a compatible WritableRaster with the specified location (minX, minY) and size (width, height), a new SampleModel, and a new initialized DataBuffer. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createCompatibleWritableRaster**](http://docs.google.com/java/awt/image/Raster.html#createCompatibleWritableRaster(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rect)            Create a compatible WritableRaster with location (minX, minY) and size (width, height) specified by rect, a new SampleModel, and a new initialized DataBuffer. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createInterleavedRaster**](http://docs.google.com/java/awt/image/Raster.html#createInterleavedRaster(java.awt.image.DataBuffer,%20int,%20int,%20int,%20int,%20int%5B%5D,%20java.awt.Point))([DataBuffer](http://docs.google.com/java/awt/image/DataBuffer.html) dataBuffer, int w, int h, int scanlineStride, int pixelStride, int[] bandOffsets, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a PixelInterleavedSampleModel with the specified DataBuffer, width, height, scanline stride, pixel stride, and band offsets. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createInterleavedRaster**](http://docs.google.com/java/awt/image/Raster.html#createInterleavedRaster(int,%20int,%20int,%20int,%20int,%20int%5B%5D,%20java.awt.Point))(int dataType, int w, int h, int scanlineStride, int pixelStride, int[] bandOffsets, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a PixelInterleavedSampleModel with the specified data type, width, height, scanline stride, pixel stride, and band offsets. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createInterleavedRaster**](http://docs.google.com/java/awt/image/Raster.html#createInterleavedRaster(int,%20int,%20int,%20int,%20java.awt.Point))(int dataType, int w, int h, int bands, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a PixelInterleavedSampleModel with the specified data type, width, height, and number of bands. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createPackedRaster**](http://docs.google.com/java/awt/image/Raster.html#createPackedRaster(java.awt.image.DataBuffer,%20int,%20int,%20int,%20int%5B%5D,%20java.awt.Point))([DataBuffer](http://docs.google.com/java/awt/image/DataBuffer.html) dataBuffer, int w, int h, int scanlineStride, int[] bandMasks, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a SinglePixelPackedSampleModel with the specified DataBuffer, width, height, scanline stride, and band masks. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createPackedRaster**](http://docs.google.com/java/awt/image/Raster.html#createPackedRaster(java.awt.image.DataBuffer,%20int,%20int,%20int,%20java.awt.Point))([DataBuffer](http://docs.google.com/java/awt/image/DataBuffer.html) dataBuffer, int w, int h, int bitsPerPixel, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a MultiPixelPackedSampleModel with the specified DataBuffer, width, height, and bits per pixel. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createPackedRaster**](http://docs.google.com/java/awt/image/Raster.html#createPackedRaster(int,%20int,%20int,%20int%5B%5D,%20java.awt.Point))(int dataType, int w, int h, int[] bandMasks, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a SinglePixelPackedSampleModel with the specified data type, width, height, and band masks. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createPackedRaster**](http://docs.google.com/java/awt/image/Raster.html#createPackedRaster(int,%20int,%20int,%20int,%20int,%20java.awt.Point))(int dataType, int w, int h, int bands, int bitsPerBand, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a Raster based on a packed SampleModel with the specified data type, width, height, number of bands, and bits per band. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **WritableRaster.**[**createWritableChild**](http://docs.google.com/java/awt/image/WritableRaster.html#createWritableChild(int,%20int,%20int,%20int,%20int,%20int,%20int%5B%5D))(int parentX, int parentY, int w, int h, int childMinX, int childMinY, int[] bandList)            Returns a new WritableRaster which shares all or part of this WritableRaster's DataBuffer. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createWritableRaster**](http://docs.google.com/java/awt/image/Raster.html#createWritableRaster(java.awt.image.SampleModel,%20java.awt.image.DataBuffer,%20java.awt.Point))([SampleModel](http://docs.google.com/java/awt/image/SampleModel.html) sm, [DataBuffer](http://docs.google.com/java/awt/image/DataBuffer.html) db, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a WritableRaster with the specified SampleModel and DataBuffer. |
| static [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createWritableRaster**](http://docs.google.com/java/awt/image/Raster.html#createWritableRaster(java.awt.image.SampleModel,%20java.awt.Point))([SampleModel](http://docs.google.com/java/awt/image/SampleModel.html) sm, [Point](http://docs.google.com/java/awt/Point.html) location)            Creates a WritableRaster with the specified SampleModel. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **WritableRaster.**[**createWritableTranslatedChild**](http://docs.google.com/java/awt/image/WritableRaster.html#createWritableTranslatedChild(int,%20int))(int childMinX, int childMinY)            Create a WritableRaster with the same size, SampleModel and DataBuffer as this one, but with a different location. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **RescaleOp.**[**filter**](http://docs.google.com/java/awt/image/RescaleOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Rescales the pixel data in the source Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **LookupOp.**[**filter**](http://docs.google.com/java/awt/image/LookupOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Performs a lookup operation on a Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ConvolveOp.**[**filter**](http://docs.google.com/java/awt/image/ConvolveOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Performs a convolution on Rasters. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ColorConvertOp.**[**filter**](http://docs.google.com/java/awt/image/ColorConvertOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dest)            ColorConverts the image data in the source Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **BandCombineOp.**[**filter**](http://docs.google.com/java/awt/image/BandCombineOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Transforms the Raster using the matrix specified in the constructor. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **RasterOp.**[**filter**](http://docs.google.com/java/awt/image/RasterOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dest)            Performs a single-input/single-output operation from a source Raster to a destination Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **AffineTransformOp.**[**filter**](http://docs.google.com/java/awt/image/AffineTransformOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Transforms the source Raster and stores the results in the destination Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **BufferedImage.**[**getAlphaRaster**](http://docs.google.com/java/awt/image/BufferedImage.html#getAlphaRaster())()            Returns a WritableRaster representing the alpha channel for BufferedImage objects with ColorModel objects that support a separate spatial alpha channel, such as ComponentColorModel and DirectColorModel. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **PackedColorModel.**[**getAlphaRaster**](http://docs.google.com/java/awt/image/PackedColorModel.html#getAlphaRaster(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster)            Returns a [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) representing the alpha channel of an image, extracted from the input WritableRaster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ComponentColorModel.**[**getAlphaRaster**](http://docs.google.com/java/awt/image/ComponentColorModel.html#getAlphaRaster(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster)            Returns a Raster representing the alpha channel of an image, extracted from the input Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ColorModel.**[**getAlphaRaster**](http://docs.google.com/java/awt/image/ColorModel.html#getAlphaRaster(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster)            Returns a Raster representing the alpha channel of an image, extracted from the input Raster, provided that pixel values of this ColorModel represent color and alpha information as separate spatial bands (e.g. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **BufferedImage.**[**getRaster**](http://docs.google.com/java/awt/image/BufferedImage.html#getRaster())()            Returns the [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html). |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **WritableRaster.**[**getWritableParent**](http://docs.google.com/java/awt/image/WritableRaster.html#getWritableParent())()            Returns the parent WritableRaster (if any) of this WritableRaster, or else null. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **BufferedImage.**[**getWritableTile**](http://docs.google.com/java/awt/image/BufferedImage.html#getWritableTile(int,%20int))(int tileX, int tileY)            Checks out a tile for writing. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **WritableRenderedImage.**[**getWritableTile**](http://docs.google.com/java/awt/image/WritableRenderedImage.html#getWritableTile(int,%20int))(int tileX, int tileY)            Checks out a tile for writing. |

| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | |
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| [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **DirectColorModel.**[**coerceData**](http://docs.google.com/java/awt/image/DirectColorModel.html#coerceData(java.awt.image.WritableRaster,%20boolean))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster, boolean isAlphaPremultiplied)            Forces the raster data to match the state specified in the isAlphaPremultiplied variable, assuming the data is currently correctly described by this ColorModel. |
| [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **ComponentColorModel.**[**coerceData**](http://docs.google.com/java/awt/image/ComponentColorModel.html#coerceData(java.awt.image.WritableRaster,%20boolean))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster, boolean isAlphaPremultiplied)            Forces the raster data to match the state specified in the isAlphaPremultiplied variable, assuming the data is currently correctly described by this ColorModel. |
| [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **ColorModel.**[**coerceData**](http://docs.google.com/java/awt/image/ColorModel.html#coerceData(java.awt.image.WritableRaster,%20boolean))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster, boolean isAlphaPremultiplied)            Forces the raster data to match the state specified in the isAlphaPremultiplied variable, assuming the data is currently correctly described by this ColorModel. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **BufferedImage.**[**copyData**](http://docs.google.com/java/awt/image/BufferedImage.html#copyData(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) outRaster)            Computes an arbitrary rectangular region of the BufferedImage and copies it into a specified WritableRaster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **RenderedImage.**[**copyData**](http://docs.google.com/java/awt/image/RenderedImage.html#copyData(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster)            Computes an arbitrary rectangular region of the RenderedImage and copies it into a caller-supplied WritableRaster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **RescaleOp.**[**filter**](http://docs.google.com/java/awt/image/RescaleOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Rescales the pixel data in the source Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **LookupOp.**[**filter**](http://docs.google.com/java/awt/image/LookupOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Performs a lookup operation on a Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ConvolveOp.**[**filter**](http://docs.google.com/java/awt/image/ConvolveOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Performs a convolution on Rasters. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ColorConvertOp.**[**filter**](http://docs.google.com/java/awt/image/ColorConvertOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dest)            ColorConverts the image data in the source Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **BandCombineOp.**[**filter**](http://docs.google.com/java/awt/image/BandCombineOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Transforms the Raster using the matrix specified in the constructor. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **RasterOp.**[**filter**](http://docs.google.com/java/awt/image/RasterOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dest)            Performs a single-input/single-output operation from a source Raster to a destination Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **AffineTransformOp.**[**filter**](http://docs.google.com/java/awt/image/AffineTransformOp.html#filter(java.awt.image.Raster,%20java.awt.image.WritableRaster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) dst)            Transforms the source Raster and stores the results in the destination Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **PackedColorModel.**[**getAlphaRaster**](http://docs.google.com/java/awt/image/PackedColorModel.html#getAlphaRaster(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster)            Returns a [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) representing the alpha channel of an image, extracted from the input WritableRaster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ComponentColorModel.**[**getAlphaRaster**](http://docs.google.com/java/awt/image/ComponentColorModel.html#getAlphaRaster(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster)            Returns a Raster representing the alpha channel of an image, extracted from the input Raster. |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **ColorModel.**[**getAlphaRaster**](http://docs.google.com/java/awt/image/ColorModel.html#getAlphaRaster(java.awt.image.WritableRaster))([WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster)            Returns a Raster representing the alpha channel of an image, extracted from the input Raster, provided that pixel values of this ColorModel represent color and alpha information as separate spatial bands (e.g. |

| Constructors in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | |
| --- | --- |
| [**BufferedImage**](http://docs.google.com/java/awt/image/BufferedImage.html#BufferedImage(java.awt.image.ColorModel,%20java.awt.image.WritableRaster,%20boolean,%20java.util.Hashtable))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) raster, boolean isRasterPremultiplied, [Hashtable](http://docs.google.com/java/util/Hashtable.html)<?,?> properties)            Constructs a new BufferedImage with a specified ColorModel and Raster. |
| [**WritableRaster**](http://docs.google.com/java/awt/image/WritableRaster.html#WritableRaster(java.awt.image.SampleModel,%20java.awt.image.DataBuffer,%20java.awt.Rectangle,%20java.awt.Point,%20java.awt.image.WritableRaster))([SampleModel](http://docs.google.com/java/awt/image/SampleModel.html) sampleModel, [DataBuffer](http://docs.google.com/java/awt/image/DataBuffer.html) dataBuffer, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) aRegion, [Point](http://docs.google.com/java/awt/Point.html) sampleModelTranslate, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) parent)            Constructs a WritableRaster with the given SampleModel, DataBuffer, and parent. |

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