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

**Uses of Class**

**java.awt.image.Raster**

| Packages that use [Raster](http://docs.google.com/java/awt/image/Raster.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. |
| [**javax.imageio**](#tyjcwt) | The main package of the Java Image I/O API. |

| Uses of [Raster](http://docs.google.com/java/awt/image/Raster.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) that return [Raster](http://docs.google.com/java/awt/image/Raster.html) | |
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| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **PaintContext.**[**getRaster**](http://docs.google.com/java/awt/PaintContext.html#getRaster(int,%20int,%20int,%20int))(int x, int y, int w, int h)            Returns a Raster containing the colors generated for the graphics operation. |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [Raster](http://docs.google.com/java/awt/image/Raster.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 [Raster](http://docs.google.com/java/awt/image/Raster.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| Subclasses of [Raster](http://docs.google.com/java/awt/image/Raster.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| class | [**WritableRaster**](http://docs.google.com/java/awt/image/WritableRaster.html)            This class extends Raster to provide pixel writing capabilities. |

| Fields in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) declared as [Raster](http://docs.google.com/java/awt/image/Raster.html) | |
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| protected  [Raster](http://docs.google.com/java/awt/image/Raster.html) | **Raster.**[**parent**](http://docs.google.com/java/awt/image/Raster.html#parent)            The parent of this Raster, or null. |

| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) that return [Raster](http://docs.google.com/java/awt/image/Raster.html) | |
| --- | --- |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **Raster.**[**createChild**](http://docs.google.com/java/awt/image/Raster.html#createChild(int,%20int,%20int,%20int,%20int,%20int,%20int%5B%5D))(int parentX, int parentY, int width, int height, int childMinX, int childMinY, int[] bandList)            Returns a new Raster which shares all or part of this Raster's DataBuffer. |
| static [Raster](http://docs.google.com/java/awt/image/Raster.html) | **Raster.**[**createRaster**](http://docs.google.com/java/awt/image/Raster.html#createRaster(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 Raster with the specified SampleModel and DataBuffer. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **Raster.**[**createTranslatedChild**](http://docs.google.com/java/awt/image/Raster.html#createTranslatedChild(int,%20int))(int childMinX, int childMinY)            Create a Raster with the same size, SampleModel and DataBuffer as this one, but with a different location. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **BufferedImage.**[**getData**](http://docs.google.com/java/awt/image/BufferedImage.html#getData())()            Returns the image as one large tile. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **RenderedImage.**[**getData**](http://docs.google.com/java/awt/image/RenderedImage.html#getData())()            Returns the image as one large tile (for tile based images this will require fetching the whole image and copying the image data over). |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **BufferedImage.**[**getData**](http://docs.google.com/java/awt/image/BufferedImage.html#getData(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rect)            Computes and returns an arbitrary region of the BufferedImage. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **RenderedImage.**[**getData**](http://docs.google.com/java/awt/image/RenderedImage.html#getData(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rect)            Computes and returns an arbitrary region of the RenderedImage. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **Raster.**[**getParent**](http://docs.google.com/java/awt/image/Raster.html#getParent())()            Returns the parent Raster (if any) of this Raster or null. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **BufferedImage.**[**getTile**](http://docs.google.com/java/awt/image/BufferedImage.html#getTile(int,%20int))(int tileX, int tileY)            Returns tile (tileX, tileY). |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **RenderedImage.**[**getTile**](http://docs.google.com/java/awt/image/RenderedImage.html#getTile(int,%20int))(int tileX, int tileY)            Returns tile (tileX, tileY). |

| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [Raster](http://docs.google.com/java/awt/image/Raster.html) | |
| --- | --- |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **IndexColorModel.**[**convertToIntDiscrete**](http://docs.google.com/java/awt/image/IndexColorModel.html#convertToIntDiscrete(java.awt.image.Raster,%20boolean))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster, boolean forceARGB)            Returns a new BufferedImage of TYPE\_INT\_ARGB or TYPE\_INT\_RGB that has a Raster with pixel data computed by expanding the indices in the source Raster using the color/alpha component arrays of this ColorModel. |
| [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) | **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. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **RescaleOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/RescaleOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the rescaled destination Raster. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **LookupOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/LookupOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the filtered destination Raster. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **ConvolveOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/ConvolveOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the filtered destination Raster. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **ColorConvertOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/ColorConvertOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the destination, given this source. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **BandCombineOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/BandCombineOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the transformed destination. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **RasterOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/RasterOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the filtered destination Raster. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **AffineTransformOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/AffineTransformOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the transformed destination. |
| boolean | **DirectColorModel.**[**isCompatibleRaster**](http://docs.google.com/java/awt/image/DirectColorModel.html#isCompatibleRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster)            Returns true if raster is compatible with this ColorModel and false if it is not. |
| boolean | **ComponentColorModel.**[**isCompatibleRaster**](http://docs.google.com/java/awt/image/ComponentColorModel.html#isCompatibleRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster)            Returns true if raster is compatible with this ColorModel; false if it is not. |
| boolean | **IndexColorModel.**[**isCompatibleRaster**](http://docs.google.com/java/awt/image/IndexColorModel.html#isCompatibleRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster)            Returns true if raster is compatible with this ColorModel or false if it is not compatible with this ColorModel. |
| boolean | **ColorModel.**[**isCompatibleRaster**](http://docs.google.com/java/awt/image/ColorModel.html#isCompatibleRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster)            Returns true if raster is compatible with this ColorModel and false if it is not. |
| void | **BufferedImage.**[**setData**](http://docs.google.com/java/awt/image/BufferedImage.html#setData(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) r)            Sets a rectangular region of the image to the contents of the specified Raster r, which is assumed to be in the same coordinate space as the BufferedImage. |
| void | **WritableRenderedImage.**[**setData**](http://docs.google.com/java/awt/image/WritableRenderedImage.html#setData(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) r)            Sets a rect of the image to the contents of the Raster r, which is assumed to be in the same coordinate space as the WritableRenderedImage. |
| void | **WritableRaster.**[**setDataElements**](http://docs.google.com/java/awt/image/WritableRaster.html#setDataElements(int,%20int,%20java.awt.image.Raster))(int x, int y, [Raster](http://docs.google.com/java/awt/image/Raster.html) inRaster)            Sets the data for a rectangle of pixels from an input Raster. |
| void | **WritableRaster.**[**setRect**](http://docs.google.com/java/awt/image/WritableRaster.html#setRect(int,%20int,%20java.awt.image.Raster))(int dx, int dy, [Raster](http://docs.google.com/java/awt/image/Raster.html) srcRaster)            Copies pixels from Raster srcRaster to this WritableRaster. |
| void | **WritableRaster.**[**setRect**](http://docs.google.com/java/awt/image/WritableRaster.html#setRect(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) srcRaster)            Copies pixels from Raster srcRaster to this WritableRaster. |

| Constructors in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [Raster](http://docs.google.com/java/awt/image/Raster.html) | |
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| [**Raster**](http://docs.google.com/java/awt/image/Raster.html#Raster(java.awt.image.SampleModel,%20java.awt.image.DataBuffer,%20java.awt.Rectangle,%20java.awt.Point,%20java.awt.image.Raster))([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, [Raster](http://docs.google.com/java/awt/image/Raster.html) parent)            Constructs a Raster with the given SampleModel, DataBuffer, and parent. |

| Uses of [Raster](http://docs.google.com/java/awt/image/Raster.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 [Raster](http://docs.google.com/java/awt/image/Raster.html) | |
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| protected  [Raster](http://docs.google.com/java/awt/image/Raster.html) | **IIOImage.**[**raster**](http://docs.google.com/javax/imageio/IIOImage.html#raster)            The Raster being referenced. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) that return [Raster](http://docs.google.com/java/awt/image/Raster.html) | |
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| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **IIOImage.**[**getRaster**](http://docs.google.com/javax/imageio/IIOImage.html#getRaster())()            Returns the currently set Raster, or null if only a RenderedImage is available. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **ImageReader.**[**readRaster**](http://docs.google.com/javax/imageio/ImageReader.html#readRaster(int,%20javax.imageio.ImageReadParam))(int imageIndex, [ImageReadParam](http://docs.google.com/javax/imageio/ImageReadParam.html) param)            Returns a new Raster object containing the raw pixel data from the image stream, without any color conversion applied. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **ImageReader.**[**readTileRaster**](http://docs.google.com/javax/imageio/ImageReader.html#readTileRaster(int,%20int,%20int))(int imageIndex, int tileX, int tileY)            Returns a new Raster object containing the raw pixel data from the tile, without any color conversion applied. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) with parameters of type [Raster](http://docs.google.com/java/awt/image/Raster.html) | |
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| void | **ImageWriter.**[**replacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#replacePixels(java.awt.image.Raster,%20javax.imageio.ImageWriteParam))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster, [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 Raster. |
| void | **IIOImage.**[**setRaster**](http://docs.google.com/javax/imageio/IIOImage.html#setRaster(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster)            Sets the current Raster. |

| Constructors in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) with parameters of type [Raster](http://docs.google.com/java/awt/image/Raster.html) | |
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| [**IIOImage**](http://docs.google.com/javax/imageio/IIOImage.html#IIOImage(java.awt.image.Raster,%20java.util.List,%20javax.imageio.metadata.IIOMetadata))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster, [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 Raster, and thumbnails and metadata associated with it. |

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