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

**Uses of Class**

**java.awt.image.ColorModel**

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

| Uses of [ColorModel](http://docs.google.com/java/awt/image/ColorModel.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 [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | |
| --- | --- |
| abstract  [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **GraphicsConfiguration.**[**getColorModel**](http://docs.google.com/java/awt/GraphicsConfiguration.html#getColorModel())()            Returns the [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) associated with this GraphicsConfiguration. |
| [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **Component.**[**getColorModel**](http://docs.google.com/java/awt/Component.html#getColorModel())()            Gets the instance of ColorModel used to display the component on the output device. |
| abstract  [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **Toolkit.**[**getColorModel**](http://docs.google.com/java/awt/Toolkit.html#getColorModel())()            Determines the color model of this toolkit's screen. |
| [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **PaintContext.**[**getColorModel**](http://docs.google.com/java/awt/PaintContext.html#getColorModel())()            Returns the ColorModel of the output. |
| abstract  [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **GraphicsConfiguration.**[**getColorModel**](http://docs.google.com/java/awt/GraphicsConfiguration.html#getColorModel(int))(int transparency)            Returns the ColorModel associated with this GraphicsConfiguration that supports the specified transparency. |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | |
| --- | --- |
| [CompositeContext](http://docs.google.com/java/awt/CompositeContext.html) | **AlphaComposite.**[**createContext**](http://docs.google.com/java/awt/AlphaComposite.html#createContext(java.awt.image.ColorModel,%20java.awt.image.ColorModel,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) srcColorModel, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) dstColorModel, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates a context for the compositing operation. |
| [CompositeContext](http://docs.google.com/java/awt/CompositeContext.html) | **Composite.**[**createContext**](http://docs.google.com/java/awt/Composite.html#createContext(java.awt.image.ColorModel,%20java.awt.image.ColorModel,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) srcColorModel, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) dstColorModel, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates a context containing state that is used to perform the compositing operation. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **LinearGradientPaint.**[**createContext**](http://docs.google.com/java/awt/LinearGradientPaint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) transform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a [PaintContext](http://docs.google.com/java/awt/PaintContext.html) used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **TexturePaint.**[**createContext**](http://docs.google.com/java/awt/TexturePaint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a context used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **SystemColor.**[**createContext**](http://docs.google.com/java/awt/SystemColor.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r2d, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a PaintContext used to generate a solid color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **RadialGradientPaint.**[**createContext**](http://docs.google.com/java/awt/RadialGradientPaint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) transform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a [PaintContext](http://docs.google.com/java/awt/PaintContext.html) used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **GradientPaint.**[**createContext**](http://docs.google.com/java/awt/GradientPaint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a context used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **Paint.**[**createContext**](http://docs.google.com/java/awt/Paint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a [PaintContext](http://docs.google.com/java/awt/PaintContext.html) used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **Color.**[**createContext**](http://docs.google.com/java/awt/Color.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r2d, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a [PaintContext](http://docs.google.com/java/awt/PaintContext.html) used to generate a solid color pattern. |

| Uses of [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| Subclasses of [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
| --- | --- |
| class | [**ComponentColorModel**](http://docs.google.com/java/awt/image/ComponentColorModel.html)            A ColorModel class that works with pixel values that represent color and alpha information as separate samples and that store each sample in a separate data element. |
| class | [**DirectColorModel**](http://docs.google.com/java/awt/image/DirectColorModel.html)            The DirectColorModel class is a ColorModel class that works with pixel values that represent RGB color and alpha information as separate samples and that pack all samples for a single pixel into a single int, short, or byte quantity. |
| class | [**IndexColorModel**](http://docs.google.com/java/awt/image/IndexColorModel.html)            The IndexColorModel class is a ColorModel class that works with pixel values consisting of a single sample that is an index into a fixed colormap in the default sRGB color space. |
| class | [**PackedColorModel**](http://docs.google.com/java/awt/image/PackedColorModel.html)            The PackedColorModel class is an abstract [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) class that works with pixel values which represent color and alpha information as separate samples and which pack all samples for a single pixel into a single int, short, or byte quantity. |

| Fields in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) declared as [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | |
| --- | --- |
| protected  [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **RGBImageFilter.**[**newmodel**](http://docs.google.com/java/awt/image/RGBImageFilter.html#newmodel)            The ColorModel with which to replace origmodel when the user calls substituteColorModel. |
| protected  [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **RGBImageFilter.**[**origmodel**](http://docs.google.com/java/awt/image/RGBImageFilter.html#origmodel)            The ColorModel to be replaced by newmodel when the user calls [substituteColorModel](http://docs.google.com/java/awt/image/RGBImageFilter.html#substituteColorModel(java.awt.image.ColorModel,%20java.awt.image.ColorModel)). |

| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) that return [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | |
| --- | --- |
| [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. |
| [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **BufferedImage.**[**getColorModel**](http://docs.google.com/java/awt/image/BufferedImage.html#getColorModel())()            Returns the ColorModel. |
| [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **PixelGrabber.**[**getColorModel**](http://docs.google.com/java/awt/image/PixelGrabber.html#getColorModel())()            Get the ColorModel for the pixels stored in the array. |
| [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **RenderedImage.**[**getColorModel**](http://docs.google.com/java/awt/image/RenderedImage.html#getColorModel())()            Returns the ColorModel associated with this image. |
| static [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **ColorModel.**[**getRGBdefault**](http://docs.google.com/java/awt/image/ColorModel.html#getRGBdefault())()            Returns a DirectColorModel that describes the default format for integer RGB values used in many of the methods in the AWT image interfaces for the convenience of the programmer. |

| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | |
| --- | --- |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **RescaleOp.**[**createCompatibleDestImage**](http://docs.google.com/java/awt/image/RescaleOp.html#createCompatibleDestImage(java.awt.image.BufferedImage,%20java.awt.image.ColorModel))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) destCM)            Creates a zeroed destination image with the correct size and number of bands. |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **LookupOp.**[**createCompatibleDestImage**](http://docs.google.com/java/awt/image/LookupOp.html#createCompatibleDestImage(java.awt.image.BufferedImage,%20java.awt.image.ColorModel))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) destCM)            Creates a zeroed destination image with the correct size and number of bands. |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ConvolveOp.**[**createCompatibleDestImage**](http://docs.google.com/java/awt/image/ConvolveOp.html#createCompatibleDestImage(java.awt.image.BufferedImage,%20java.awt.image.ColorModel))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) destCM)            Creates a zeroed destination image with the correct size and number of bands. |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **ColorConvertOp.**[**createCompatibleDestImage**](http://docs.google.com/java/awt/image/ColorConvertOp.html#createCompatibleDestImage(java.awt.image.BufferedImage,%20java.awt.image.ColorModel))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) destCM)            Creates a zeroed destination image with the correct size and number of bands, given this source. |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **AffineTransformOp.**[**createCompatibleDestImage**](http://docs.google.com/java/awt/image/AffineTransformOp.html#createCompatibleDestImage(java.awt.image.BufferedImage,%20java.awt.image.ColorModel))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) destCM)            Creates a zeroed destination image with the correct size and number of bands. |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **BufferedImageOp.**[**createCompatibleDestImage**](http://docs.google.com/java/awt/image/BufferedImageOp.html#createCompatibleDestImage(java.awt.image.BufferedImage,%20java.awt.image.ColorModel))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) destCM)            Creates a zeroed destination image with the correct size and number of bands. |
| void | **MemoryImageSource.**[**newPixels**](http://docs.google.com/java/awt/image/MemoryImageSource.html#newPixels(byte%5B%5D,%20java.awt.image.ColorModel,%20int,%20int))(byte[] newpix, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) newmodel, int offset, int scansize)            Changes to a new byte array to hold the pixels for this image. |
| void | **MemoryImageSource.**[**newPixels**](http://docs.google.com/java/awt/image/MemoryImageSource.html#newPixels(int%5B%5D,%20java.awt.image.ColorModel,%20int,%20int))(int[] newpix, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) newmodel, int offset, int scansize)            Changes to a new int array to hold the pixels for this image. |
| void | **RGBImageFilter.**[**setColorModel**](http://docs.google.com/java/awt/image/RGBImageFilter.html#setColorModel(java.awt.image.ColorModel))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model)            If the ColorModel is an IndexColorModel and the subclass has set the canFilterIndexColorModel flag to true, we substitute a filtered version of the color model here and wherever that original ColorModel object appears in the setPixels methods. |
| void | **PixelGrabber.**[**setColorModel**](http://docs.google.com/java/awt/image/PixelGrabber.html#setColorModel(java.awt.image.ColorModel))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model)            The setColorModel method is part of the ImageConsumer API which this class must implement to retrieve the pixels. |
| void | **BufferedImageFilter.**[**setColorModel**](http://docs.google.com/java/awt/image/BufferedImageFilter.html#setColorModel(java.awt.image.ColorModel))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model)            Filters the information provided in the [setColorModel](http://docs.google.com/java/awt/image/ImageConsumer.html#setColorModel(java.awt.image.ColorModel)) method of the ImageConsumer interface. |
| void | **ImageFilter.**[**setColorModel**](http://docs.google.com/java/awt/image/ImageFilter.html#setColorModel(java.awt.image.ColorModel))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model)            Filter the information provided in the setColorModel method of the ImageConsumer interface. |
| void | **ImageConsumer.**[**setColorModel**](http://docs.google.com/java/awt/image/ImageConsumer.html#setColorModel(java.awt.image.ColorModel))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model)            Sets the ColorModel object used for the majority of the pixels reported using the setPixels method calls. |
| void | **ReplicateScaleFilter.**[**setPixels**](http://docs.google.com/java/awt/image/ReplicateScaleFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, byte[] pixels, int off, int scansize)            Choose which rows and columns of the delivered byte pixels are needed for the destination scaled image and pass through just those rows and columns that are needed, replicated as necessary. |
| void | **AreaAveragingScaleFilter.**[**setPixels**](http://docs.google.com/java/awt/image/AreaAveragingScaleFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, byte[] pixels, int off, int scansize)            Combine the components for the delivered byte pixels into the accumulation arrays and send on any averaged data for rows of pixels that are complete. |
| void | **RGBImageFilter.**[**setPixels**](http://docs.google.com/java/awt/image/RGBImageFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, byte[] pixels, int off, int scansize)            If the ColorModel object is the same one that has already been converted, then simply passes the pixels through with the converted ColorModel. |
| void | **PixelGrabber.**[**setPixels**](http://docs.google.com/java/awt/image/PixelGrabber.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int))(int srcX, int srcY, int srcW, int srcH, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, byte[] pixels, int srcOff, int srcScan)            The setPixels method is part of the ImageConsumer API which this class must implement to retrieve the pixels. |
| void | **CropImageFilter.**[**setPixels**](http://docs.google.com/java/awt/image/CropImageFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, byte[] pixels, int off, int scansize)            Determine whether the delivered byte pixels intersect the region to be extracted and passes through only that subset of pixels that appear in the output region. |
| void | **BufferedImageFilter.**[**setPixels**](http://docs.google.com/java/awt/image/BufferedImageFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, byte[] pixels, int off, int scansize)            Filters the information provided in the setPixels method of the ImageConsumer interface which takes an array of bytes. |
| void | **ImageFilter.**[**setPixels**](http://docs.google.com/java/awt/image/ImageFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, byte[] pixels, int off, int scansize)            Filters the information provided in the setPixels method of the ImageConsumer interface which takes an array of bytes. |
| void | **ImageConsumer.**[**setPixels**](http://docs.google.com/java/awt/image/ImageConsumer.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, byte[] pixels, int off, int scansize)            Delivers the pixels of the image with one or more calls to this method. |
| void | **ReplicateScaleFilter.**[**setPixels**](http://docs.google.com/java/awt/image/ReplicateScaleFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, int[] pixels, int off, int scansize)            Choose which rows and columns of the delivered int pixels are needed for the destination scaled image and pass through just those rows and columns that are needed, replicated as necessary. |
| void | **AreaAveragingScaleFilter.**[**setPixels**](http://docs.google.com/java/awt/image/AreaAveragingScaleFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, int[] pixels, int off, int scansize)            Combine the components for the delivered int pixels into the accumulation arrays and send on any averaged data for rows of pixels that are complete. |
| void | **RGBImageFilter.**[**setPixels**](http://docs.google.com/java/awt/image/RGBImageFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, int[] pixels, int off, int scansize)            If the ColorModel object is the same one that has already been converted, then simply passes the pixels through with the converted ColorModel, otherwise converts the buffer of integer pixels to the default RGB ColorModel and passes the converted buffer to the filterRGBPixels method to be converted one by one. |
| void | **PixelGrabber.**[**setPixels**](http://docs.google.com/java/awt/image/PixelGrabber.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int))(int srcX, int srcY, int srcW, int srcH, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, int[] pixels, int srcOff, int srcScan)            The setPixels method is part of the ImageConsumer API which this class must implement to retrieve the pixels. |
| void | **CropImageFilter.**[**setPixels**](http://docs.google.com/java/awt/image/CropImageFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, int[] pixels, int off, int scansize)            Determine if the delivered int pixels intersect the region to be extracted and pass through only that subset of pixels that appear in the output region. |
| void | **BufferedImageFilter.**[**setPixels**](http://docs.google.com/java/awt/image/BufferedImageFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, int[] pixels, int off, int scansize)            Filters the information provided in the setPixels method of the ImageConsumer interface which takes an array of integers. |
| void | **ImageFilter.**[**setPixels**](http://docs.google.com/java/awt/image/ImageFilter.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, int[] pixels, int off, int scansize)            Filters the information provided in the setPixels method of the ImageConsumer interface which takes an array of integers. |
| void | **ImageConsumer.**[**setPixels**](http://docs.google.com/java/awt/image/ImageConsumer.html#setPixels(int,%20int,%20int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int))(int x, int y, int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) model, int[] pixels, int off, int scansize)            The pixels of the image are delivered using one or more calls to the setPixels method. |
| void | **RGBImageFilter.**[**substituteColorModel**](http://docs.google.com/java/awt/image/RGBImageFilter.html#substituteColorModel(java.awt.image.ColorModel,%20java.awt.image.ColorModel))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) oldcm, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) newcm)            Registers two ColorModel objects for substitution. |

| Constructors in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | |
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| [**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. |
| [**MemoryImageSource**](http://docs.google.com/java/awt/image/MemoryImageSource.html#MemoryImageSource(int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int))(int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, byte[] pix, int off, int scan)            Constructs an ImageProducer object which uses an array of bytes to produce data for an Image object. |
| [**MemoryImageSource**](http://docs.google.com/java/awt/image/MemoryImageSource.html#MemoryImageSource(int,%20int,%20java.awt.image.ColorModel,%20byte%5B%5D,%20int,%20int,%20java.util.Hashtable))(int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, byte[] pix, int off, int scan, [Hashtable](http://docs.google.com/java/util/Hashtable.html)<?,?> props)            Constructs an ImageProducer object which uses an array of bytes to produce data for an Image object. |
| [**MemoryImageSource**](http://docs.google.com/java/awt/image/MemoryImageSource.html#MemoryImageSource(int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int))(int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, int[] pix, int off, int scan)            Constructs an ImageProducer object which uses an array of integers to produce data for an Image object. |
| [**MemoryImageSource**](http://docs.google.com/java/awt/image/MemoryImageSource.html#MemoryImageSource(int,%20int,%20java.awt.image.ColorModel,%20int%5B%5D,%20int,%20int,%20java.util.Hashtable))(int w, int h, [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, int[] pix, int off, int scan, [Hashtable](http://docs.google.com/java/util/Hashtable.html)<?,?> props)            Constructs an ImageProducer object which uses an array of integers to produce data for an Image object. |

| Uses of [ColorModel](http://docs.google.com/java/awt/image/ColorModel.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 [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | |
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| protected  [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **ImageTypeSpecifier.**[**colorModel**](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html#colorModel)            The ColorModel to be used as a prototype. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) that return [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | |
| --- | --- |
| [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | **ImageTypeSpecifier.**[**getColorModel**](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html#getColorModel())()            Returns the ColorModel specified by this object. |

| Constructors in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) with parameters of type [ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) | |
| --- | --- |
| [**ImageTypeSpecifier**](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html#ImageTypeSpecifier(java.awt.image.ColorModel,%20java.awt.image.SampleModel))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) colorModel, [SampleModel](http://docs.google.com/java/awt/image/SampleModel.html) sampleModel)            Constructs an ImageTypeSpecifier directly from a ColorModel and a SampleModel. |

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