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

**Uses of Package**

**java.awt.image**

| Packages that use [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
| --- | --- |
| [**java.applet**](#3znysh7) | Provides the classes necessary to create an applet and the classes an applet uses to communicate with its applet context. |
| [**java.awt**](#2et92p0) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.image**](#tyjcwt) | Provides classes for creating and modifying images. |
| [**java.awt.image.renderable**](#3dy6vkm) | Provides classes and interfaces for producing rendering-independent images. |
| [**javax.imageio**](#1t3h5sf) | The main package of the Java Image I/O API. |
| [**javax.imageio.event**](#4d34og8) | A package of the Java Image I/O API dealing with synchronous notification of events during the reading and writing of images. |
| [**javax.imageio.spi**](#2s8eyo1) | A package of the Java Image I/O API containing the plug-in interfaces for readers, writers, transcoders, and streams, and a runtime registry. |
| [**javax.swing**](#17dp8vu) | Provides a set of "lightweight" (all-Java language) components that, to the maximum degree possible, work the same on all platforms. |
| [**javax.swing.colorchooser**](#3rdcrjn) | Contains classes and interfaces used by the JColorChooser component. |
| [**javax.swing.plaf.basic**](#26in1rg) | Provides user interface objects built according to the Basic look and feel. |
| [**javax.swing.plaf.metal**](#lnxbz9) | Provides user interface objects built according to the Java look and feel (once codenamed *Metal*), which is the default look and feel. |
| [**javax.swing.table**](#35nkun2) | Provides classes and interfaces for dealing with javax.swing.JTable. |
| [**javax.swing.text**](#1ksv4uv) | Provides classes and interfaces that deal with editable and noneditable text components. |
| [**javax.swing.tree**](#44sinio) | Provides classes and interfaces for dealing with javax.swing.JTree. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [java.applet](http://docs.google.com/java/applet/package-summary.html) | |
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| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#java.applet)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
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| [**BufferedImage**](http://docs.google.com/java/awt/image/class-use/BufferedImage.html#java.awt)            The BufferedImage subclass describes an [Image](http://docs.google.com/java/awt/Image.html) with an accessible buffer of image data. |
| [**BufferedImageOp**](http://docs.google.com/java/awt/image/class-use/BufferedImageOp.html#java.awt)            This interface describes single-input/single-output operations performed on BufferedImage objects. |
| [**BufferStrategy**](http://docs.google.com/java/awt/image/class-use/BufferStrategy.html#java.awt)            The BufferStrategy class represents the mechanism with which to organize complex memory on a particular Canvas or Window. |
| [**ColorModel**](http://docs.google.com/java/awt/image/class-use/ColorModel.html#java.awt)            The ColorModel abstract class encapsulates the methods for translating a pixel value to color components (for example, red, green, and blue) and an alpha component. |
| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#java.awt)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |
| [**ImageProducer**](http://docs.google.com/java/awt/image/class-use/ImageProducer.html#java.awt)            The interface for objects which can produce the image data for Images. |
| [**Raster**](http://docs.google.com/java/awt/image/class-use/Raster.html#java.awt)            A class representing a rectangular array of pixels. |
| [**RenderedImage**](http://docs.google.com/java/awt/image/class-use/RenderedImage.html#java.awt)            RenderedImage is a common interface for objects which contain or can produce image data in the form of Rasters. |
| [**VolatileImage**](http://docs.google.com/java/awt/image/class-use/VolatileImage.html#java.awt)            VolatileImage is an image which can lose its contents at any time due to circumstances beyond the control of the application (e.g., situations caused by the operating system or by other applications). |
| [**WritableRaster**](http://docs.google.com/java/awt/image/class-use/WritableRaster.html#java.awt)            This class extends Raster to provide pixel writing capabilities. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| [**BufferedImage**](http://docs.google.com/java/awt/image/class-use/BufferedImage.html#java.awt.image)            The BufferedImage subclass describes an [Image](http://docs.google.com/java/awt/Image.html) with an accessible buffer of image data. |
| [**BufferedImageOp**](http://docs.google.com/java/awt/image/class-use/BufferedImageOp.html#java.awt.image)            This interface describes single-input/single-output operations performed on BufferedImage objects. |
| [**ColorModel**](http://docs.google.com/java/awt/image/class-use/ColorModel.html#java.awt.image)            The ColorModel abstract class encapsulates the methods for translating a pixel value to color components (for example, red, green, and blue) and an alpha component. |
| [**ComponentSampleModel**](http://docs.google.com/java/awt/image/class-use/ComponentSampleModel.html#java.awt.image)            This class represents image data which is stored such that each sample of a pixel occupies one data element of the DataBuffer. |
| [**DataBuffer**](http://docs.google.com/java/awt/image/class-use/DataBuffer.html#java.awt.image)            This class exists to wrap one or more data arrays. |
| [**ImageConsumer**](http://docs.google.com/java/awt/image/class-use/ImageConsumer.html#java.awt.image)            The interface for objects expressing interest in image data through the ImageProducer interfaces. |
| [**ImageFilter**](http://docs.google.com/java/awt/image/class-use/ImageFilter.html#java.awt.image)            This class implements a filter for the set of interface methods that are used to deliver data from an ImageProducer to an ImageConsumer. |
| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#java.awt.image)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |
| [**ImageProducer**](http://docs.google.com/java/awt/image/class-use/ImageProducer.html#java.awt.image)            The interface for objects which can produce the image data for Images. |
| [**IndexColorModel**](http://docs.google.com/java/awt/image/class-use/IndexColorModel.html#java.awt.image)            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. |
| [**Kernel**](http://docs.google.com/java/awt/image/class-use/Kernel.html#java.awt.image)            The Kernel class defines a matrix that describes how a specified pixel and its surrounding pixels affect the value computed for the pixel's position in the output image of a filtering operation. |
| [**LookupTable**](http://docs.google.com/java/awt/image/class-use/LookupTable.html#java.awt.image)            This abstract class defines a lookup table object. |
| [**PackedColorModel**](http://docs.google.com/java/awt/image/class-use/PackedColorModel.html#java.awt.image)            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. |
| [**Raster**](http://docs.google.com/java/awt/image/class-use/Raster.html#java.awt.image)            A class representing a rectangular array of pixels. |
| [**RasterOp**](http://docs.google.com/java/awt/image/class-use/RasterOp.html#java.awt.image)            This interface describes single-input/single-output operations performed on Raster objects. |
| [**RenderedImage**](http://docs.google.com/java/awt/image/class-use/RenderedImage.html#java.awt.image)            RenderedImage is a common interface for objects which contain or can produce image data in the form of Rasters. |
| [**ReplicateScaleFilter**](http://docs.google.com/java/awt/image/class-use/ReplicateScaleFilter.html#java.awt.image)            An ImageFilter class for scaling images using the simplest algorithm. |
| [**SampleModel**](http://docs.google.com/java/awt/image/class-use/SampleModel.html#java.awt.image)            This abstract class defines an interface for extracting samples of pixels in an image. |
| [**TileObserver**](http://docs.google.com/java/awt/image/class-use/TileObserver.html#java.awt.image)            An interface for objects that wish to be informed when tiles of a WritableRenderedImage become modifiable by some writer via a call to getWritableTile, and when they become unmodifiable via the last call to releaseWritableTile. |
| [**WritableRaster**](http://docs.google.com/java/awt/image/class-use/WritableRaster.html#java.awt.image)            This class extends Raster to provide pixel writing capabilities. |
| [**WritableRenderedImage**](http://docs.google.com/java/awt/image/class-use/WritableRenderedImage.html#java.awt.image)            WriteableRenderedImage is a common interface for objects which contain or can produce image data in the form of Rasters and which can be modified and/or written over. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [java.awt.image.renderable](http://docs.google.com/java/awt/image/renderable/package-summary.html) | |
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| [**ImageConsumer**](http://docs.google.com/java/awt/image/class-use/ImageConsumer.html#java.awt.image.renderable)            The interface for objects expressing interest in image data through the ImageProducer interfaces. |
| [**ImageProducer**](http://docs.google.com/java/awt/image/class-use/ImageProducer.html#java.awt.image.renderable)            The interface for objects which can produce the image data for Images. |
| [**RenderedImage**](http://docs.google.com/java/awt/image/class-use/RenderedImage.html#java.awt.image.renderable)            RenderedImage is a common interface for objects which contain or can produce image data in the form of Rasters. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) | |
| --- | --- |
| [**BufferedImage**](http://docs.google.com/java/awt/image/class-use/BufferedImage.html#javax.imageio)            The BufferedImage subclass describes an [Image](http://docs.google.com/java/awt/Image.html) with an accessible buffer of image data. |
| [**ColorModel**](http://docs.google.com/java/awt/image/class-use/ColorModel.html#javax.imageio)            The ColorModel abstract class encapsulates the methods for translating a pixel value to color components (for example, red, green, and blue) and an alpha component. |
| [**Raster**](http://docs.google.com/java/awt/image/class-use/Raster.html#javax.imageio)            A class representing a rectangular array of pixels. |
| [**RenderedImage**](http://docs.google.com/java/awt/image/class-use/RenderedImage.html#javax.imageio)            RenderedImage is a common interface for objects which contain or can produce image data in the form of Rasters. |
| [**SampleModel**](http://docs.google.com/java/awt/image/class-use/SampleModel.html#javax.imageio)            This abstract class defines an interface for extracting samples of pixels in an image. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.imageio.event](http://docs.google.com/javax/imageio/event/package-summary.html) | |
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| [**BufferedImage**](http://docs.google.com/java/awt/image/class-use/BufferedImage.html#javax.imageio.event)            The BufferedImage subclass describes an [Image](http://docs.google.com/java/awt/Image.html) with an accessible buffer of image data. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.imageio.spi](http://docs.google.com/javax/imageio/spi/package-summary.html) | |
| --- | --- |
| [**RenderedImage**](http://docs.google.com/java/awt/image/class-use/RenderedImage.html#javax.imageio.spi)            RenderedImage is a common interface for objects which contain or can produce image data in the form of Rasters. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
| --- | --- |
| [**ImageConsumer**](http://docs.google.com/java/awt/image/class-use/ImageConsumer.html#javax.swing)            The interface for objects expressing interest in image data through the ImageProducer interfaces. |
| [**ImageFilter**](http://docs.google.com/java/awt/image/class-use/ImageFilter.html#javax.swing)            This class implements a filter for the set of interface methods that are used to deliver data from an ImageProducer to an ImageConsumer. |
| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#javax.swing)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |
| [**RGBImageFilter**](http://docs.google.com/java/awt/image/class-use/RGBImageFilter.html#javax.swing)            This class provides an easy way to create an ImageFilter which modifies the pixels of an image in the default RGB ColorModel. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.swing.colorchooser](http://docs.google.com/javax/swing/colorchooser/package-summary.html) | |
| --- | --- |
| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#javax.swing.colorchooser)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
| --- | --- |
| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#javax.swing.plaf.basic)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) | |
| --- | --- |
| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#javax.swing.plaf.metal)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.swing.table](http://docs.google.com/javax/swing/table/package-summary.html) | |
| --- | --- |
| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#javax.swing.table)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) | |
| --- | --- |
| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#javax.swing.text)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) used by [javax.swing.tree](http://docs.google.com/javax/swing/tree/package-summary.html) | |
| --- | --- |
| [**ImageObserver**](http://docs.google.com/java/awt/image/class-use/ImageObserver.html#javax.swing.tree)            An asynchronous update interface for receiving notifications about Image information as the Image is constructed. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **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/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.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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