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

**Uses of Interface**

**java.awt.image.ImageConsumer**

| Packages that use [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) | |
| --- | --- |
| [**java.awt.image**](#3znysh7) | Provides classes for creating and modifying images. |
| [**java.awt.image.renderable**](#2et92p0) | Provides classes and interfaces for producing rendering-independent images. |
| [**javax.swing**](#tyjcwt) | Provides a set of "lightweight" (all-Java language) components that, to the maximum degree possible, work the same on all platforms. |

| Uses of [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
| --- | --- |

| Classes in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) that implement [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) | |
| --- | --- |
| class | [**AreaAveragingScaleFilter**](http://docs.google.com/java/awt/image/AreaAveragingScaleFilter.html)            An ImageFilter class for scaling images using a simple area averaging algorithm that produces smoother results than the nearest neighbor algorithm. |
| class | [**BufferedImageFilter**](http://docs.google.com/java/awt/image/BufferedImageFilter.html)            The BufferedImageFilter class subclasses an ImageFilter to provide a simple means of using a single-source/single-destination image operator ([BufferedImageOp](http://docs.google.com/java/awt/image/BufferedImageOp.html)) to filter a BufferedImage in the Image Producer/Consumer/Observer paradigm. |
| class | [**CropImageFilter**](http://docs.google.com/java/awt/image/CropImageFilter.html)            An ImageFilter class for cropping images. |
| class | [**ImageFilter**](http://docs.google.com/java/awt/image/ImageFilter.html)            This class implements a filter for the set of interface methods that are used to deliver data from an ImageProducer to an ImageConsumer. |
| class | [**PixelGrabber**](http://docs.google.com/java/awt/image/PixelGrabber.html)            The PixelGrabber class implements an ImageConsumer which can be attached to an Image or ImageProducer object to retrieve a subset of the pixels in that image. |
| class | [**ReplicateScaleFilter**](http://docs.google.com/java/awt/image/ReplicateScaleFilter.html)            An ImageFilter class for scaling images using the simplest algorithm. |
| class | [**RGBImageFilter**](http://docs.google.com/java/awt/image/RGBImageFilter.html)            This class provides an easy way to create an ImageFilter which modifies the pixels of an image in the default RGB ColorModel. |

| Fields in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) declared as [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) | |
| --- | --- |
| protected  [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) | **ImageFilter.**[**consumer**](http://docs.google.com/java/awt/image/ImageFilter.html#consumer)            The consumer of the particular image data stream for which this instance of the ImageFilter is filtering data. |

| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) | |
| --- | --- |
| void | **MemoryImageSource.**[**addConsumer**](http://docs.google.com/java/awt/image/MemoryImageSource.html#addConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Adds an ImageConsumer to the list of consumers interested in data for this image. |
| void | **FilteredImageSource.**[**addConsumer**](http://docs.google.com/java/awt/image/FilteredImageSource.html#addConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Adds the specified ImageConsumer to the list of consumers interested in data for the filtered image. |
| void | **ImageProducer.**[**addConsumer**](http://docs.google.com/java/awt/image/ImageProducer.html#addConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Registers an ImageConsumer with the ImageProducer for access to the image data during a later reconstruction of the Image. |
| [ImageFilter](http://docs.google.com/java/awt/image/ImageFilter.html) | **ImageFilter.**[**getFilterInstance**](http://docs.google.com/java/awt/image/ImageFilter.html#getFilterInstance(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Returns a unique instance of an ImageFilter object which will actually perform the filtering for the specified ImageConsumer. |
| boolean | **MemoryImageSource.**[**isConsumer**](http://docs.google.com/java/awt/image/MemoryImageSource.html#isConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Determines if an ImageConsumer is on the list of consumers currently interested in data for this image. |
| boolean | **FilteredImageSource.**[**isConsumer**](http://docs.google.com/java/awt/image/FilteredImageSource.html#isConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Determines whether an ImageConsumer is on the list of consumers currently interested in data for this image. |
| boolean | **ImageProducer.**[**isConsumer**](http://docs.google.com/java/awt/image/ImageProducer.html#isConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Determines if a specified ImageConsumer object is currently registered with this ImageProducer as one of its consumers. |
| void | **MemoryImageSource.**[**removeConsumer**](http://docs.google.com/java/awt/image/MemoryImageSource.html#removeConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Removes an ImageConsumer from the list of consumers interested in data for this image. |
| void | **FilteredImageSource.**[**removeConsumer**](http://docs.google.com/java/awt/image/FilteredImageSource.html#removeConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Removes an ImageConsumer from the list of consumers interested in data for this image. |
| void | **ImageProducer.**[**removeConsumer**](http://docs.google.com/java/awt/image/ImageProducer.html#removeConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Removes the specified ImageConsumer object from the list of consumers currently registered to receive image data. |
| void | **MemoryImageSource.**[**requestTopDownLeftRightResend**](http://docs.google.com/java/awt/image/MemoryImageSource.html#requestTopDownLeftRightResend(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Requests that a given ImageConsumer have the image data delivered one more time in top-down, left-right order. |
| void | **FilteredImageSource.**[**requestTopDownLeftRightResend**](http://docs.google.com/java/awt/image/FilteredImageSource.html#requestTopDownLeftRightResend(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Requests that a given ImageConsumer have the image data delivered one more time in top-down, left-right order. |
| void | **ImageProducer.**[**requestTopDownLeftRightResend**](http://docs.google.com/java/awt/image/ImageProducer.html#requestTopDownLeftRightResend(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Requests, on behalf of the ImageConsumer, that the ImageProducer attempt to resend the image data one more time in TOPDOWNLEFTRIGHT order so that higher quality conversion algorithms which depend on receiving pixels in order can be used to produce a better output version of the image. |
| void | **MemoryImageSource.**[**startProduction**](http://docs.google.com/java/awt/image/MemoryImageSource.html#startProduction(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Adds an ImageConsumer to the list of consumers interested in data for this image and immediately starts delivery of the image data through the ImageConsumer interface. |
| void | **FilteredImageSource.**[**startProduction**](http://docs.google.com/java/awt/image/FilteredImageSource.html#startProduction(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Starts production of the filtered image. |
| void | **ImageProducer.**[**startProduction**](http://docs.google.com/java/awt/image/ImageProducer.html#startProduction(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Registers the specified ImageConsumer object as a consumer and starts an immediate reconstruction of the image data which will then be delivered to this consumer and any other consumer which might have already been registered with the producer. |

| Uses of [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) in [java.awt.image.renderable](http://docs.google.com/java/awt/image/renderable/package-summary.html) | |
| --- | --- |

| Methods in [java.awt.image.renderable](http://docs.google.com/java/awt/image/renderable/package-summary.html) with parameters of type [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) | |
| --- | --- |
| void | **RenderableImageProducer.**[**addConsumer**](http://docs.google.com/java/awt/image/renderable/RenderableImageProducer.html#addConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Adds an ImageConsumer to the list of consumers interested in data for this image. |
| boolean | **RenderableImageProducer.**[**isConsumer**](http://docs.google.com/java/awt/image/renderable/RenderableImageProducer.html#isConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Determine if an ImageConsumer is on the list of consumers currently interested in data for this image. |
| void | **RenderableImageProducer.**[**removeConsumer**](http://docs.google.com/java/awt/image/renderable/RenderableImageProducer.html#removeConsumer(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Remove an ImageConsumer from the list of consumers interested in data for this image. |
| void | **RenderableImageProducer.**[**requestTopDownLeftRightResend**](http://docs.google.com/java/awt/image/renderable/RenderableImageProducer.html#requestTopDownLeftRightResend(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Requests that a given ImageConsumer have the image data delivered one more time in top-down, left-right order. |
| void | **RenderableImageProducer.**[**startProduction**](http://docs.google.com/java/awt/image/renderable/RenderableImageProducer.html#startProduction(java.awt.image.ImageConsumer))([ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) ic)            Adds an ImageConsumer to the list of consumers interested in data for this image, and immediately starts delivery of the image data through the ImageConsumer interface. |

| Uses of [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
| --- | --- |

| Classes in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that implement [ImageConsumer](http://docs.google.com/java/awt/image/ImageConsumer.html) | |
| --- | --- |
| class | [**GrayFilter**](http://docs.google.com/javax/swing/GrayFilter.html)            An image filter that "disables" an image by turning it into a grayscale image, and brightening the pixels in the image. |

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