

javax.imageio.*

ImageReader + ImageWriter

ImageReader

ImageReader (ImageReaderSpi originatingProvider)

Static Methods

```
# void checkReadParamBandSettings (ImageReadParam param, int numSrcBands,
    int numDstBands)
# void computeRegions (ImageReadParam param, int srcWidth, int srcHeight,
    BufferedImage image, Rectangle srcRegion, Rectangle destRegion)
# BufferedImage getDestination (ImageReadParam param, Iterator imageTypes, int width, int height)
# Rectangle getSourceRegion (ImageReadParam param, int srcWidth, int srcHeight)
```

Accessors

```
float getAspectRatio (int imageIndex)
Locale[] getAvailableLocales ()
ImageReadParam getDefaultReadParam ()
String getFormatName ()
int getHeight (int imageIndex)
IOMetadata getImageMetadata (int imageIndex)
IOMetadata getImageMetadata (int imageIndex, String formatName, Set nodeNames)
Iterator getImageTypes (int imageIndex)
Object get / setInput ()
Locale get / setLocale ()
int getMinIndex ()
int getNumImages (boolean allowSearch)
int getNumThumbnails (int imageIndex)
ImageReaderSpi getOriginatingProvider ()
ImageTypeSpecifier getRawImageType (int imageIndex)
IOMetadata getStreamMetadata ()
IOMetadata getStreamMetadata (String formatName, Set nodeNames)
int getThumbnailHeight (int imageIndex, int thumbnailIndex)
int getThumbnailWidth (int imageIndex, int thumbnailIndex)
int getTileGridXOffset (int imageIndex)
int getTileGridYOffset (int imageIndex)
int getTileHeight (int imageIndex)
int getTileWidth (int imageIndex)
int getWidth (int imageIndex)
boolean isIgnoringMetadata ()
boolean isImageTiled (int imageIndex)
boolean isRandomAccessEasy (int imageIndex)
boolean isSeekForwardOnly ()
void setInput (Object input, boolean seekForwardOnly)
void setInput (Object input, boolean seekForwardOnly, boolean ignoreMetadata)
```

Event Methods

```
void add / removeIOReadProgressListener (IOReadProgressListener listener)
void add / removeIOReadUpdateListener (IOReadUpdateListener listener)
void add / removeIOReadWarningListener (IOReadWarningListener listener)
void removeAllIOReadProgressListeners ()
void removeAllIOReadUpdateListeners ()
void removeAllIOReadWarningListeners ()
```

Other Public Methods

```
void abort ()
boolean canReadRaster ()
void dispose ()
boolean hasThumbnails (int imageIndex)
BufferedImage read (int imageIndex)
BufferedImage read (int imageIndex, ImageReadParam param)
Iterator readAll (Iterator params)
IIOImage readAll (int imageIndex, ImageReadParam param)
RenderedImage readAsRenderedImage (int imageIndex, ImageReadParam param)
Raster readRaster (int imageIndex, ImageReadParam param)
BufferedImage readThumbnail (int imageIndex, int thumbnailIndex)
BufferedImage readTile (int imageIndex, int tileX, int tileY)
Raster readTileRaster (int imageIndex, int tileX, int tileY)
boolean readerSupportsThumbnails ()
void reset ()
```

Other Protected Methods

```
# boolean abortRequested ()
# void clearAbortRequest ()
# void processImageComplete ()
# void processImageProgress (float percentageDone)
# void processImageStarted (int imageIndex)
# void processImageUpdate (BufferedImage theImage, int minX, int minY, int width, int height,
    int periodX, int periodY, int[] bands)
# void processPassComplete (BufferedImage theImage)
# void processPassStarted (BufferedImage theImage, int pass, int minPass, int maxPass, int minX,
    int minY, int periodX, int periodY, int[] bands)
# void processReadAborted ()
# void processSequenceComplete ()
# void processSequenceStarted (int minIndex)
# void processThumbnailComplete ()
# void processThumbnailPassComplete (BufferedImage theThumbnail)
# void processThumbnailPassStarted (BufferedImage theThumbnail, int pass, int minPass,
    int maxPass, int minX, int minY, int periodX, int periodY, int[] bands)
# void processThumbnailProgress (float percentageDone)
# void processThumbnailStarted (int imageIndex, int thumbnailIndex)
# void processThumbnailUpdate (BufferedImage theThumbnail, int minX, int minY, int width,
    int height, int periodX, int periodY, int[] bands)
# void processWarningOccurred (String warning)
# void processWarningOccurred (String baseName, String keyword)
```

ImageWriter

IOMetadata convertImageMetadata (IOMetadata inData, ImageTypeSpecifier imageType, ImageWriteParam param)
IOMetadata convertStreamMetadata (IOMetadata inData, ImageWriteParam param)

Accessors + Collectors

```
Locale[] getAvailableLocales ()
IOMetadata getDefaultImageMetadata (ImageTypeSpecifier imageType, ImageWriteParam param)
IOMetadata getDefaultStreamMetadata (ImageWriteParam param)
ImageWriteParam getDefaultWriteParam ()
Locale get / setLocale ()
int getNumThumbnailsSupported (ImageTypeSpecifier imageType, ImageWriteParam param,
    IOMetadata streamMetadata, IOMetadata imageMetadata)
```

ImageWriterSpi getOriginatingProvider ()

```
Object get / setOutput ()
Dimension[] getPreferredThumbnailSizes (ImageTypeSpecifier imageType, ImageWriteParam param,
    IOMetadata streamMetadata, IOMetadata imageMetadata)
void removeImage (int imageIndex)
```

Event Methods

```
void add / removeIOWriteProgressListener (IOWriteProgressListener listener)
void add / removeIOWriteWarningListener (IOWriteWarningListener listener)
void removeAllIOWriteProgressListeners ()
void removeAllIOWriteWarningListeners ()
```

Other Public Methods

```
void abort ()
boolean canInsertEmpty (int imageIndex)
boolean canInsertImage (int imageIndex)
boolean canRemoveImage (int imageIndex)
boolean canReplaceImageMetadata (int imageIndex)
boolean canReplacePixels (int imageIndex)
boolean canReplaceStreamMetadata ()
boolean canWriteEmpty ()
boolean canWriteRasters ()
boolean canWriteSequence ()
void dispose ()
void endInsertEmpty ()
void endReplacePixels ()
void endWriteEmpty ()
void endWriteSequence ()
void prepareInsertEmpty (int imageIndex, ImageTypeSpecifier imageType, int width, int height,
    IOMetadata imageMetadata, List thumbnails, ImageWriteParam param)
void prepareReplacePixels (int imageIndex, Rectangle region)
void prepareWriteEmpty (IOMetadata streamMetadata, ImageTypeSpecifier imageType, int width,
    int height, IOMetadata imageMetadata, List thumbnails, ImageWriteParam param)
void prepareWriteSequence (IOMetadata streamMetadata)
void replaceImageMetadata (int imageIndex, IOMetadata imageMetadata)
void replacePixels (RenderedImage image, ImageWriteParam param)
void replacePixels (Raster raster, ImageWriteParam param)
void replaceStreamMetadata (IOMetadata streamMetadata)
void reset ()
void write (IIOImage image)
void write (RenderedImage image)
void write (IOMetadata streamMetadata, IIOImage image, ImageWriteParam param)
void writeInsert (int imageIndex, IIOImage image, ImageWriteParam param)
void writeToSequence (IIOImage image, ImageWriteParam param)
```

Other Protected Methods

```
# boolean abortRequested ()
# void clearAbortRequest ()
# void processImageComplete ()
# void processImageProgress (float percentageDone)
# void processImageStarted (int imageIndex)
# void processThumbnailComplete ()
# void processThumbnailProgress (float percentageDone)
# void processThumbnailStarted (int imageIndex, int thumbnailIndex)
# void processWarningOccurred (int imageIndex, String warning)
# void processWarningOccurred (int imageIndex, String baseName, String keyword)
# void processWriteAborted ()
```