| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/imageio/metadata/IIOMetadata.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?javax/imageio/metadata//class-useIIOMetadata.html)    [**NO FRAMES**](http://docs.google.com/IIOMetadata.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**javax.imageio.metadata.IIOMetadata**

| Packages that use [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | |
| --- | --- |
| [**javax.imageio**](#3znysh7) | The main package of the Java Image I/O API. |
| [**javax.imageio.metadata**](#2et92p0) | A package of the Java Image I/O API dealing with reading and writing metadata. |

| Uses of [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.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 [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | |
| --- | --- |
| protected  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **IIOImage.**[**metadata**](http://docs.google.com/javax/imageio/IIOImage.html#metadata)            An IIOMetadata object containing metadata associated with the image. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) that return [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | |
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| [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageTranscoder.**[**convertImageMetadata**](http://docs.google.com/javax/imageio/ImageTranscoder.html#convertImageMetadata(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageTypeSpecifier,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) inData, [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Returns an IIOMetadata object that may be used for encoding and optionally modified using its document interfaces or other interfaces specific to the writer plug-in that will be used for encoding. |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageWriter.**[**convertImageMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#convertImageMetadata(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageTypeSpecifier,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) inData, [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param) |
| [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageTranscoder.**[**convertStreamMetadata**](http://docs.google.com/javax/imageio/ImageTranscoder.html#convertStreamMetadata(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) inData, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Returns an IIOMetadata object that may be used for encoding and optionally modified using its document interfaces or other interfaces specific to the writer plug-in that will be used for encoding. |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageWriter.**[**convertStreamMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#convertStreamMetadata(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) inData, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param) |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageWriter.**[**getDefaultImageMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#getDefaultImageMetadata(javax.imageio.ImageTypeSpecifier,%20javax.imageio.ImageWriteParam))([ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Returns an IIOMetadata object containing default values for encoding an image of the given type. |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageWriter.**[**getDefaultStreamMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#getDefaultStreamMetadata(javax.imageio.ImageWriteParam))([ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Returns an IIOMetadata object containing default values for encoding a stream of images. |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageReader.**[**getImageMetadata**](http://docs.google.com/javax/imageio/ImageReader.html#getImageMetadata(int))(int imageIndex)            Returns an IIOMetadata object containing metadata associated with the given image, or null if the reader does not support reading metadata, is set to ignore metadata, or if no metadata is available. |
| [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageReader.**[**getImageMetadata**](http://docs.google.com/javax/imageio/ImageReader.html#getImageMetadata(int,%20java.lang.String,%20java.util.Set))(int imageIndex, [String](http://docs.google.com/java/lang/String.html) formatName, [Set](http://docs.google.com/java/util/Set.html)<[String](http://docs.google.com/java/lang/String.html)> nodeNames)            Returns an IIOMetadata object representing the metadata associated with the given image, or null if the reader does not support reading metadata or none is available. |
| [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **IIOImage.**[**getMetadata**](http://docs.google.com/javax/imageio/IIOImage.html#getMetadata())()            Returns a reference to the current IIOMetadata object, or null is none is set. |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageReader.**[**getStreamMetadata**](http://docs.google.com/javax/imageio/ImageReader.html#getStreamMetadata())()            Returns an IIOMetadata object representing the metadata associated with the input source as a whole (i.e., not associated with any particular image), or null if the reader does not support reading metadata, is set to ignore metadata, or if no metadata is available. |
| [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageReader.**[**getStreamMetadata**](http://docs.google.com/javax/imageio/ImageReader.html#getStreamMetadata(java.lang.String,%20java.util.Set))([String](http://docs.google.com/java/lang/String.html) formatName, [Set](http://docs.google.com/java/util/Set.html)<[String](http://docs.google.com/java/lang/String.html)> nodeNames)            Returns an IIOMetadata object representing the metadata associated with the input source as a whole (i.e., not associated with any particular image). |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) with parameters of type [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | |
| --- | --- |
| [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageTranscoder.**[**convertImageMetadata**](http://docs.google.com/javax/imageio/ImageTranscoder.html#convertImageMetadata(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageTypeSpecifier,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) inData, [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Returns an IIOMetadata object that may be used for encoding and optionally modified using its document interfaces or other interfaces specific to the writer plug-in that will be used for encoding. |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageWriter.**[**convertImageMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#convertImageMetadata(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageTypeSpecifier,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) inData, [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param) |
| [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageTranscoder.**[**convertStreamMetadata**](http://docs.google.com/javax/imageio/ImageTranscoder.html#convertStreamMetadata(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) inData, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Returns an IIOMetadata object that may be used for encoding and optionally modified using its document interfaces or other interfaces specific to the writer plug-in that will be used for encoding. |
| abstract  [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | **ImageWriter.**[**convertStreamMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#convertStreamMetadata(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) inData, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param) |
| int | **ImageWriter.**[**getNumThumbnailsSupported**](http://docs.google.com/javax/imageio/ImageWriter.html#getNumThumbnailsSupported(javax.imageio.ImageTypeSpecifier,%20javax.imageio.ImageWriteParam,%20javax.imageio.metadata.IIOMetadata,%20javax.imageio.metadata.IIOMetadata))([ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) imageMetadata)            Returns the number of thumbnails suported by the format being written, given the image type and any additional write parameters and metadata objects that will be used during encoding. |
| [Dimension](http://docs.google.com/java/awt/Dimension.html)[] | **ImageWriter.**[**getPreferredThumbnailSizes**](http://docs.google.com/javax/imageio/ImageWriter.html#getPreferredThumbnailSizes(javax.imageio.ImageTypeSpecifier,%20javax.imageio.ImageWriteParam,%20javax.imageio.metadata.IIOMetadata,%20javax.imageio.metadata.IIOMetadata))([ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) imageMetadata)            Returns an array of Dimensions indicating the legal size ranges for thumbnail images as they will be encoded in the output file or stream. |
| void | **ImageWriter.**[**prepareInsertEmpty**](http://docs.google.com/javax/imageio/ImageWriter.html#prepareInsertEmpty(int,%20javax.imageio.ImageTypeSpecifier,%20int,%20int,%20javax.imageio.metadata.IIOMetadata,%20java.util.List,%20javax.imageio.ImageWriteParam))(int imageIndex, [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, int width, int height, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) imageMetadata, [List](http://docs.google.com/java/util/List.html)<? extends [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html)> thumbnails, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Begins the insertion of a new image with undefined pixel values into an existing image stream. |
| void | **ImageWriter.**[**prepareWriteEmpty**](http://docs.google.com/javax/imageio/ImageWriter.html#prepareWriteEmpty(javax.imageio.metadata.IIOMetadata,%20javax.imageio.ImageTypeSpecifier,%20int,%20int,%20javax.imageio.metadata.IIOMetadata,%20java.util.List,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata, [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) imageType, int width, int height, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) imageMetadata, [List](http://docs.google.com/java/util/List.html)<? extends [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html)> thumbnails, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Begins the writing of a complete image stream, consisting of a single image with undefined pixel values and associated metadata and thumbnails, to the output. |
| void | **ImageWriter.**[**prepareWriteSequence**](http://docs.google.com/javax/imageio/ImageWriter.html#prepareWriteSequence(javax.imageio.metadata.IIOMetadata))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata)            Prepares a stream to accept a series of subsequent writeToSequence calls, using the provided stream metadata object. |
| void | **ImageWriter.**[**replaceImageMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#replaceImageMetadata(int,%20javax.imageio.metadata.IIOMetadata))(int imageIndex, [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) imageMetadata)            Replaces the image metadata associated with an existing image. |
| void | **ImageWriter.**[**replaceStreamMetadata**](http://docs.google.com/javax/imageio/ImageWriter.html#replaceStreamMetadata(javax.imageio.metadata.IIOMetadata))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata)            Replaces the stream metadata in the output with new information. |
| void | **IIOImage.**[**setMetadata**](http://docs.google.com/javax/imageio/IIOImage.html#setMetadata(javax.imageio.metadata.IIOMetadata))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) metadata)            Sets the IIOMetadata to a new object, or null. |
| abstract  void | **ImageWriter.**[**write**](http://docs.google.com/javax/imageio/ImageWriter.html#write(javax.imageio.metadata.IIOMetadata,%20javax.imageio.IIOImage,%20javax.imageio.ImageWriteParam))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) streamMetadata, [IIOImage](http://docs.google.com/javax/imageio/IIOImage.html) image, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Appends a complete image stream containing a single image and associated stream and image metadata and thumbnails to the output. |

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

| Uses of [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) in [javax.imageio.metadata](http://docs.google.com/javax/imageio/metadata/package-summary.html) | |
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| Methods in [javax.imageio.metadata](http://docs.google.com/javax/imageio/metadata/package-summary.html) with parameters of type [IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) | |
| --- | --- |
| boolean | **IIOMetadataController.**[**activate**](http://docs.google.com/javax/imageio/metadata/IIOMetadataController.html#activate(javax.imageio.metadata.IIOMetadata))([IIOMetadata](http://docs.google.com/javax/imageio/metadata/IIOMetadata.html) metadata)            Activates the controller. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/imageio/metadata/IIOMetadata.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?javax/imageio/metadata//class-useIIOMetadata.html)    [**NO FRAMES**](http://docs.google.com/IIOMetadata.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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