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

**Uses of Class**

**javax.imageio.ImageWriteParam**

| Packages that use [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) | |
| --- | --- |
| [**javax.imageio**](#3znysh7) | The main package of the Java Image I/O API. |
| [**javax.imageio.plugins.bmp**](#2et92p0) | Package containing the public classes used by the built-in BMP plug-in. |
| [**javax.imageio.plugins.jpeg**](#tyjcwt) | Classes supporting the built-in JPEG plug-in. |

| Uses of [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) | |
| --- | --- |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) that return [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) | |
| --- | --- |
| [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) | **ImageWriter.**[**getDefaultWriteParam**](http://docs.google.com/javax/imageio/ImageWriter.html#getDefaultWriteParam())()            Returns a new ImageWriteParam object of the appropriate type for this file format containing default values, that is, those values that would be used if no ImageWriteParam object were specified. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) with parameters of type [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.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) |
| 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. |
| 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.**[**replacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#replacePixels(java.awt.image.Raster,%20javax.imageio.ImageWriteParam))([Raster](http://docs.google.com/java/awt/image/Raster.html) raster, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Replaces a portion of an image already present in the output with a portion of the given Raster. |
| void | **ImageWriter.**[**replacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#replacePixels(java.awt.image.RenderedImage,%20javax.imageio.ImageWriteParam))([RenderedImage](http://docs.google.com/java/awt/image/RenderedImage.html) image, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Replaces a portion of an image already present in the output with a portion of the given image. |
| 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. |
| void | **ImageWriter.**[**writeInsert**](http://docs.google.com/javax/imageio/ImageWriter.html#writeInsert(int,%20javax.imageio.IIOImage,%20javax.imageio.ImageWriteParam))(int imageIndex, [IIOImage](http://docs.google.com/javax/imageio/IIOImage.html) image, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Inserts a new image into an existing image stream. |
| void | **ImageWriter.**[**writeToSequence**](http://docs.google.com/javax/imageio/ImageWriter.html#writeToSequence(javax.imageio.IIOImage,%20javax.imageio.ImageWriteParam))([IIOImage](http://docs.google.com/javax/imageio/IIOImage.html) image, [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) param)            Appends a single image and possibly associated metadata and thumbnails, to the output. |

| Uses of [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) in [javax.imageio.plugins.bmp](http://docs.google.com/javax/imageio/plugins/bmp/package-summary.html) | |
| --- | --- |

| Subclasses of [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) in [javax.imageio.plugins.bmp](http://docs.google.com/javax/imageio/plugins/bmp/package-summary.html) | |
| --- | --- |
| class | [**BMPImageWriteParam**](http://docs.google.com/javax/imageio/plugins/bmp/BMPImageWriteParam.html)            A subclass of ImageWriteParam for encoding images in the BMP format. |

| Uses of [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) in [javax.imageio.plugins.jpeg](http://docs.google.com/javax/imageio/plugins/jpeg/package-summary.html) | |
| --- | --- |

| Subclasses of [ImageWriteParam](http://docs.google.com/javax/imageio/ImageWriteParam.html) in [javax.imageio.plugins.jpeg](http://docs.google.com/javax/imageio/plugins/jpeg/package-summary.html) | |
| --- | --- |
| class | [**JPEGImageWriteParam**](http://docs.google.com/javax/imageio/plugins/jpeg/JPEGImageWriteParam.html)            This class adds the ability to set JPEG quantization and Huffman tables when using the built-in JPEG writer plug-in, and to request that optimized Huffman tables be computed for an image. |

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

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).