| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/IIOWriteProgressListener.html) | [**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 CLASS**](http://docs.google.com/javax/imageio/event/IIOReadWarningListener.html)   [**NEXT CLASS**](http://docs.google.com/javax/imageio/event/IIOWriteWarningListener.html) | [**FRAMES**](http://docs.google.com/index.html?javax/imageio/event/IIOWriteProgressListener.html)    [**NO FRAMES**](http://docs.google.com/IIOWriteProgressListener.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **javax.imageio.event**

Interface IIOWriteProgressListener

**All Superinterfaces:** [EventListener](http://docs.google.com/java/util/EventListener.html)

public interface **IIOWriteProgressListener**extends [EventListener](http://docs.google.com/java/util/EventListener.html)

An interface used by ImageWriter implementations to notify callers of their image writing methods of progress.

**See Also:**[ImageWriter.write(javax.imageio.metadata.IIOMetadata, javax.imageio.IIOImage, javax.imageio.ImageWriteParam)](http://docs.google.com/javax/imageio/ImageWriter.html#write(javax.imageio.metadata.IIOMetadata,%20javax.imageio.IIOImage,%20javax.imageio.ImageWriteParam))

| **Method Summary** | |
| --- | --- |
| void | [**imageComplete**](http://docs.google.com/javax/imageio/event/IIOWriteProgressListener.html#imageComplete(javax.imageio.ImageWriter))([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source)            Reports that the image write operation has completed. |
| void | [**imageProgress**](http://docs.google.com/javax/imageio/event/IIOWriteProgressListener.html#imageProgress(javax.imageio.ImageWriter,%20float))([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source, float percentageDone)            Reports the approximate degree of completion of the current write call within the associated ImageWriter. |
| void | [**imageStarted**](http://docs.google.com/javax/imageio/event/IIOWriteProgressListener.html#imageStarted(javax.imageio.ImageWriter,%20int))([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source, int imageIndex)            Reports that an image write operation is beginning. |
| void | [**thumbnailComplete**](http://docs.google.com/javax/imageio/event/IIOWriteProgressListener.html#thumbnailComplete(javax.imageio.ImageWriter))([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source)            Reports that a thumbnail write operation has completed. |
| void | [**thumbnailProgress**](http://docs.google.com/javax/imageio/event/IIOWriteProgressListener.html#thumbnailProgress(javax.imageio.ImageWriter,%20float))([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source, float percentageDone)            Reports the approximate degree of completion of the current thumbnail write within the associated ImageWriter. |
| void | [**thumbnailStarted**](http://docs.google.com/javax/imageio/event/IIOWriteProgressListener.html#thumbnailStarted(javax.imageio.ImageWriter,%20int,%20int))([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source, int imageIndex, int thumbnailIndex)            Reports that a thumbnail write operation is beginning. |
| void | [**writeAborted**](http://docs.google.com/javax/imageio/event/IIOWriteProgressListener.html#writeAborted(javax.imageio.ImageWriter))([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source)            Reports that a write has been aborted via the writer's abort method. |

| **Method Detail** |
| --- |

### imageStarted

void **imageStarted**([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source,  
 int imageIndex)

Reports that an image write operation is beginning. All ImageWriter implementations are required to call this method exactly once when beginning an image write operation.

**Parameters:**source - the ImageWriter object calling this method.imageIndex - the index of the image being written within its containing input file or stream.

### imageProgress

void **imageProgress**([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source,  
 float percentageDone)

Reports the approximate degree of completion of the current write call within the associated ImageWriter.

The degree of completion is expressed as an index indicating which image is being written, and a percentage varying from 0.0F to 100.0F indicating how much of the current image has been output. The percentage should ideally be calculated in terms of the remaining time to completion, but it is usually more practical to use a more well-defined metric such as pixels decoded or portion of input stream consumed. In any case, a sequence of calls to this method during a given read operation should supply a monotonically increasing sequence of percentage values. It is not necessary to supply the exact values 0 and 100, as these may be inferred by the callee from other methods.

Each particular ImageWriter implementation may call this method at whatever frequency it desires. A rule of thumb is to call it around each 5 percent mark.

**Parameters:**source - the ImageWriter object calling this method.percentageDone - the approximate percentage of decoding that has been completed.

### imageComplete

void **imageComplete**([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source)

Reports that the image write operation has completed. All ImageWriter implementations are required to call this method exactly once upon completion of each image write operation.

**Parameters:**source - the ImageWriter object calling this method.

### thumbnailStarted

void **thumbnailStarted**([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source,  
 int imageIndex,  
 int thumbnailIndex)

Reports that a thumbnail write operation is beginning. All ImageWriter implementations are required to call this method exactly once when beginning a thumbnail write operation.

**Parameters:**source - the ImageWrite object calling this method.imageIndex - the index of the image being written within its containing input file or stream.thumbnailIndex - the index of the thumbnail being written.

### thumbnailProgress

void **thumbnailProgress**([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source,  
 float percentageDone)

Reports the approximate degree of completion of the current thumbnail write within the associated ImageWriter. The semantics are identical to those of imageProgress.

**Parameters:**source - the ImageWriter object calling this method.percentageDone - the approximate percentage of decoding that has been completed.

### thumbnailComplete

void **thumbnailComplete**([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source)

Reports that a thumbnail write operation has completed. All ImageWriter implementations are required to call this method exactly once upon completion of each thumbnail write operation.

**Parameters:**source - the ImageWriter object calling this method.

### writeAborted

void **writeAborted**([ImageWriter](http://docs.google.com/javax/imageio/ImageWriter.html) source)

Reports that a write has been aborted via the writer's abort method. No further notifications will be given.

**Parameters:**source - the ImageWriter object calling this method.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/IIOWriteProgressListener.html) | [**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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| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[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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