⬛ javax.imageio.*
ImageReader + ImageWriter

⬛ ImageTranscoder
```
IIOMetadata  convertImageMetadata (IIOMetadata inData,  ImageTypeSpecifier imageType,  ImageWriteParam param)
IIOMetadata  convertStreamMetadata (IIOMetadata inData,  ImageWriteParam param)
```

⬛ 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) ⌁
      IIOMetadata  getImageMetadata (int imageIndex) ⌁
      IIOMetadata  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) ⌁
      IIOMetadata  getStreamMetadata () ⌁
      IIOMetadata  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 / removeIIOReadProgressListener (IIOReadProgressListener listener)
             void  add / removeIIOReadUpdateListener (IIOReadUpdateListener listener)
             void  add / removeIIOReadWarningListener (IIOReadWarningListener listener)
             void  removeAllIIOReadProgressListeners ()
             void  removeAllIIOReadUpdateListeners ()
             void  removeAllIIOReadWarningListeners ()
```
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
 # ImageWriter (ImageWriterSpi originatingProvider)

Accessors + Collectors
```
          Locale[]  getAvailableLocales ()
      IIOMetadata  getDefaultImageMetadata (ImageTypeSpecifier imageType,  ImageWriteParam param)
      IIOMetadata  getDefaultStreamMetadata (ImageWriteParam param)
  ImageWriteParam  getDefaultWriteParam ()
           Locale  get / setLocale ()
              int  getNumThumbnailsSupported (ImageTypeSpecifier imageType,  ImageWriteParam param,
                                              IIOMetadata streamMetadata, IIOMetadata imageMetadata)
   ImageWriterSpi  getOriginatingProvider ()
           Object  get / setOutput ()
     Dimension[]  getPreferredThumbnailSizes (ImageTypeSpecifier imageType,  ImageWriteParam param,
                                              IIOMetadata streamMetadata, IIOMetadata imageMetadata)
             void  removeImage (int imageIndex) ⌁
```
Event Methods
```
             void  add / removeIIOWriteProgressListener (IIOWriteProgressListener listener)
             void  add / removeIIOWriteWarningListener (IIOWriteWarningListener listener)
             void  removeAllIIOWriteProgressListeners ()
             void  removeAllIIOWriteWarningListeners ()
```
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,
                                       IIOMetadata imageMetadata, List thumbnails,  ImageWriteParam param) ⌁
             void  prepareReplacePixels (int imageIndex,  Rectangle region) ⌁
             void  prepareWriteEmpty (IIOMetadata streamMetadata,  ImageTypeSpecifier imageType,  int width,
                                      int height, IIOMetadata imageMetadata,  List thumbnails,  ImageWriteParam param) ⌁
             void  prepareWriteSequence (IIOMetadata streamMetadata) ⌁
             void  replaceImageMetadata (int imageIndex,  IIOMetadata imageMetadata) ⌁
             void  replacePixels (RenderedImage image,  ImageWriteParam param) ⌁
             void  replacePixels (Raster raster,  ImageWriteParam param) ⌁
             void  replaceStreamMetadata (IIOMetadata streamMetadata) ⌁
             void  reset ()
             void  write (IIOImage image) ⌁
             void  write (RenderedImage image) ⌁
             void  write (IIOMetadata 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 ()
```