

Article

Java Advanced Imaging API Sample Source Install

Advanced Imaging API Sample Image File Readers and Writers Installation

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System Requirements:

- For Solaris operating environment:
 - Solaris operating environment 2.5.1 or subsequent compatible version
 - Java 2 platform, Standard Edition
 - Java 2 SDK Reference Implementation, v. 1.2 or later
 - Java 2 SDK Solaris Production Release, v. 1.2.1_04 or later
 - At least 1 MB of free disk space.
- For Microsoft Windows:
 - Windows NT 4.0 or Windows 95 or later
 - Java 2 platform, FCS version (Java 2 SDK, Standard Edition (J2SE SDK) 1.2 FCS) or later
 - At least 1 MB of free disk space.
- For Linux:
 - Linux RedHat 6.1 or later or equivalent.
 - Java 2 platform, FCS version (J2SE SDK 1.2 FCS) or later
 - At least 1 MB of free disk space.

Downloading the Archive Files

Using your browser, download either the `tar.gz` file or the `.zip` file from the download page to the location where you want to temporarily store it .

Installation Instructions

The downloaded files are archive files either in a Tar Compressed format or in a Zip format. Unbundle the sample code using the appropriate utility: [WinZip](#), `unzip`, `gunzip`, `pkunzip`, `uncompress`, or `tar`.

- For `.zip` files:

```
C:> unzip jai-1_1_1-src-codec.zip
```

Note: If you're using another tool that doesn't preserve path names by default, be sure to specify that path names be preserved. If you're using `pkunzip`, specify `-d`:

```
C:> pkunzip -d jai-1_1_1-src-codec.zip
```

• For **.tar.gz** files:

```
% gunzip jai-1_1_1-src-codec.tar.gz
```

```
% tar xvf jai-1_1_1-src-codec.tar
```

After Java Advanced Imaging Sample Image Readers and Writers Source Code is installed

Java Advanced Imaging Sample Image Readers and Writers Source Code will be installed with the following files:

```
BMPCodec.java
BMPEncodeParam.java
BMPImageDecoder.java
BMPImageEncoder.java
BugFixes.jar
ByteArraySeekableStream.java
ComponentSampleModelJAI.java
DataBufferDouble.java
DataBufferFloat.java
FPXCodec.java
FPXDecodeParam.java
FPXImage.java
FPXImageDecoder.java
FPXUtils.java
FileCacheSeekableStream.java
FileSeekableStream.java
FloatDoubleColorModel.java
ForwardSeekableStream.java
GIFCodec.java
GIFImageDecoder.java
ImageCodec.java
ImageDecodeParam.java
ImageDecoder.java
ImageDecoderImpl.java
ImageEncodeParam.java
ImageEncoder.java
ImageEncoderImpl.java
JPEGCodec.java
JPEGDecodeParam.java
JPEGEncodeParam.java
JPEGImageDecoder.java
JPEGImageEncoder.java
JaiI18N.java
MemoryCacheSeekableStream.java
PNGCodec.java
PNGDecodeParam.java
PNGEncodeParam.java
PNGImageDecoder.java
PNGImageEncoder.java
PNGSuggestedPaletteEntry.java
PNMCodec.java
PNMEncodeParam.java
PNMImageDecoder.java
PNMImageEncoder.java
PropertySet.java
PropertyUtil.java
```

```
RasterFactory.java
SeekableOutputStream.java
SeekableStream.java
SegmentedSeekableStream.java
SimpleRenderedImage.java
SingleTileRenderedImage.java
StreamSegment.java
StreamSegmentMapper.java
StructuredStorage.java
TIFFCodec.java
TIFFDecodeParam.java
TIFFDirectory.java
TIFFEncodeParam.java
TIFFFaxDecoder.java
TIFFFaxEncoder.java
TIFFField.java
TIFFImage.java
TIFFImageDecoder.java
TIFFImageEncoder.java
TIFFLZWDecoder.java
properties
```

Special note should be taken of the file `BugFixes.jar`. This jar archive contains fixes for several bugs which were present in the JAI 1.1.1 version of the code. These bugs include the following:

- Inability to write 4-bit TIFF images.
- Incorrect TIFF G3_2D and G4 encoding when the image width is not a multiple of 8.
- Incorrect writing of multiple pages per TIFF file when the output is bilevel and is compressed.
- Workaround in the TIFF decoder for the case of the value of the TIFF "RowsPerStrip" field exceeding the image height.
- Index out of bounds exception in reading certain FlashPIX files.
- Failure to ignore the color space calibration bit in reading FlashPIX files.
- Index out of bounds errors in `SimpleRenderedImage` `getData(Rectangle)` and `copyData()` methods.

It is recommended that `BugFixes.jar` be unpacked and its contents allowed to replace the affected source files.

Exception Messages

The error messages set on `Exceptions` encountered when using the codecs are extracted from the `properties` file included in the downloaded archive file. When a message is needed this file is located by the method `getBundle()` in the `PropertyUtil` class. This method searches for the file first in the `CLASSPATH` of the `ClassLoader` which loaded the `PropertyUtil` class. If the file is not found on the `CLASSPATH` then it is searched for in the current directory. If it is still not found a stack trace will be printed. This behavior may be altered by modifying `PropertyUtil.getBundle()`. If this is not modified and the compiled classes are built into a jar file, then the `properties` file should be included in the jar. The `properties` file may of course be modified to localize the messages.

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