JavaScript is disabled on your browser.

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Tree](http://docs.google.com/package-tree.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/opencv/videoio/Videoio.html)
* Next Class
* [Frames](http://docs.google.com/index.html?org/opencv/videoio/VideoWriter.html)
* [No Frames](http://docs.google.com/VideoWriter.html)
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org.opencv.videoio

## Class VideoWriter

* java.lang.Object
  + org.opencv.videoio.VideoWriter
* public class VideoWriter  
  extends java.lang.Object  
  Video writer class. The class provides C++ API for writing video files or image sequences.

### Constructor SummaryConstructors

| Constructor and Description |
| --- |
| [**VideoWriter**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#VideoWriter())() Default constructors The constructors/functions initialize video writers. |
| [**VideoWriter**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#VideoWriter(java.lang.String,%20int,%20double,%20org.opencv.core.Size))(java.lang.String filename, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize) |
| [**VideoWriter**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#VideoWriter(java.lang.String,%20int,%20double,%20org.opencv.core.Size,%20boolean))(java.lang.String filename, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize, boolean isColor) |
| [**VideoWriter**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#VideoWriter(java.lang.String,%20int,%20int,%20double,%20org.opencv.core.Size))(java.lang.String filename, int apiPreference, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize) The apiPreference parameter allows to specify API backends to use. |
| [**VideoWriter**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#VideoWriter(java.lang.String,%20int,%20int,%20double,%20org.opencv.core.Size,%20boolean))(java.lang.String filename, int apiPreference, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize, boolean isColor) The apiPreference parameter allows to specify API backends to use. |

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [VideoWriter](http://docs.google.com/org/opencv/videoio/VideoWriter.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#__fromPtr__(long))(long addr) |
| static int | [**fourcc**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#fourcc(char,%20char,%20char,%20char))(char c1, char c2, char c3, char c4) Concatenates 4 chars to a fourcc code |
| double | [**get**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#get(int))(int propId) Returns the specified VideoWriter property |
| java.lang.String | [**getBackendName**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#getBackendName())() Returns used backend API name **Note:** Stream should be opened. |
| long | [**getNativeObjAddr**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#getNativeObjAddr())() |
| boolean | [**isOpened**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#isOpened())() Returns true if video writer has been successfully initialized. |
| boolean | [**open**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#open(java.lang.String,%20int,%20double,%20org.opencv.core.Size))(java.lang.String filename, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize) Initializes or reinitializes video writer. |
| boolean | [**open**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#open(java.lang.String,%20int,%20double,%20org.opencv.core.Size,%20boolean))(java.lang.String filename, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize, boolean isColor) Initializes or reinitializes video writer. |
| boolean | [**open**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#open(java.lang.String,%20int,%20int,%20double,%20org.opencv.core.Size))(java.lang.String filename, int apiPreference, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize) |
| boolean | [**open**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#open(java.lang.String,%20int,%20int,%20double,%20org.opencv.core.Size,%20boolean))(java.lang.String filename, int apiPreference, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize, boolean isColor) |
| void | [**release**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#release())() Closes the video writer. |
| boolean | [**set**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#set(int,%20double))(int propId, double value) Sets a property in the VideoWriter. |
| void | [**write**](http://docs.google.com/org/opencv/videoio/VideoWriter.html#write(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) image) Writes the next video frame |

### Methods inherited from class java.lang.Objectequals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Constructor Detail

#### VideoWriter public VideoWriter()

Default constructors The constructors/functions initialize video writers.

* + - * On Linux FFMPEG is used to write videos;
      * On Windows FFMPEG or VFW is used;
      * On MacOSX QTKit is used.

#### VideoWriter public VideoWriter(java.lang.String filename, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize)Parameters:filename - Name of the output video file.fourcc - 4-character code of codec used to compress the frames. For example, VideoWriter::fourcc('P','I','M','1') is a MPEG-1 codec, VideoWriter::fourcc('M','J','P','G') is a motion-jpeg codec etc. List of codes can be obtained at [Video Codecs by FOURCC](http://www.fourcc.org/codecs.php) page. FFMPEG backend with MP4 container natively uses other values as fourcc code: see [ObjectType](http://mp4ra.org/#/codecs), so you may receive a warning message from OpenCV about fourcc code conversion.fps - Framerate of the created video stream.frameSize - Size of the video frames. will work with grayscale frames (the flag is currently supported on Windows only). **Tips**:

* + - * With some backends fourcc=-1 pops up the codec selection dialog from the system.
      * To save image sequence use a proper filename (eg. img\_%02d.jpg) and fourcc=0 OR fps=0. Use uncompressed image format (eg. img\_%02d.BMP) to save raw frames.
      * Most codecs are lossy. If you want lossless video file you need to use a lossless codecs (eg. FFMPEG FFV1, Huffman HFYU, Lagarith LAGS, etc...)
      * If FFMPEG is enabled, using codec=0; fps=0; you can create an uncompressed (raw) video file.

#### VideoWriter public VideoWriter(java.lang.String filename, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize, boolean isColor)Parameters:filename - Name of the output video file.fourcc - 4-character code of codec used to compress the frames. For example, VideoWriter::fourcc('P','I','M','1') is a MPEG-1 codec, VideoWriter::fourcc('M','J','P','G') is a motion-jpeg codec etc. List of codes can be obtained at [Video Codecs by FOURCC](http://www.fourcc.org/codecs.php) page. FFMPEG backend with MP4 container natively uses other values as fourcc code: see [ObjectType](http://mp4ra.org/#/codecs), so you may receive a warning message from OpenCV about fourcc code conversion.fps - Framerate of the created video stream.frameSize - Size of the video frames.isColor - If it is not zero, the encoder will expect and encode color frames, otherwise it will work with grayscale frames (the flag is currently supported on Windows only). **Tips**:

* + - * With some backends fourcc=-1 pops up the codec selection dialog from the system.
      * To save image sequence use a proper filename (eg. img\_%02d.jpg) and fourcc=0 OR fps=0. Use uncompressed image format (eg. img\_%02d.BMP) to save raw frames.
      * Most codecs are lossy. If you want lossless video file you need to use a lossless codecs (eg. FFMPEG FFV1, Huffman HFYU, Lagarith LAGS, etc...)
      * If FFMPEG is enabled, using codec=0; fps=0; you can create an uncompressed (raw) video file.

#### VideoWriter public VideoWriter(java.lang.String filename, int apiPreference, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize) The apiPreference parameter allows to specify API backends to use. Can be used to enforce a specific reader implementation if multiple are available: e.g. cv::CAP\_FFMPEG or cv::CAP\_GSTREAMER.Parameters:filename - automatically generatedapiPreference - automatically generatedfourcc - automatically generatedfps - automatically generatedframeSize - automatically generated

#### VideoWriter public VideoWriter(java.lang.String filename, int apiPreference, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize, boolean isColor) The apiPreference parameter allows to specify API backends to use. Can be used to enforce a specific reader implementation if multiple are available: e.g. cv::CAP\_FFMPEG or cv::CAP\_GSTREAMER.Parameters:filename - automatically generatedapiPreference - automatically generatedfourcc - automatically generatedfps - automatically generatedframeSize - automatically generatedisColor - automatically generated

### Method Detail

#### \_\_fromPtr\_\_ public static [VideoWriter](http://docs.google.com/org/opencv/videoio/VideoWriter.html) \_\_fromPtr\_\_(long addr)

#### fourcc public static int fourcc(char c1, char c2, char c3, char c4) Concatenates 4 chars to a fourcc codeParameters:c1 - automatically generatedc2 - automatically generatedc3 - automatically generatedc4 - automatically generated Returns:a fourcc code This static method constructs the fourcc code of the codec to be used in the constructor VideoWriter::VideoWriter or VideoWriter::open.

#### get public double get(int propId) Returns the specified VideoWriter propertyParameters:propId - Property identifier from cv::VideoWriterProperties (eg. cv::VIDEOWRITER\_PROP\_QUALITY) or one of REF: videoio\_flags\_others Returns:Value for the specified property. Value 0 is returned when querying a property that is not supported by the backend used by the VideoWriter instance.

#### getBackendName public java.lang.String getBackendName() Returns used backend API name **Note:** Stream should be opened.Returns:automatically generated

#### getNativeObjAddr public long getNativeObjAddr()

#### isOpened public boolean isOpened() Returns true if video writer has been successfully initialized.Returns:automatically generated

#### open public boolean open(java.lang.String filename, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize) Initializes or reinitializes video writer. The method opens video writer. Parameters are the same as in the constructor VideoWriter::VideoWriter.Parameters:filename - automatically generatedfourcc - automatically generatedfps - automatically generatedframeSize - automatically generated Returns:true if video writer has been successfully initialized The method first calls VideoWriter::release to close the already opened file.

#### open public boolean open(java.lang.String filename, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize, boolean isColor) Initializes or reinitializes video writer. The method opens video writer. Parameters are the same as in the constructor VideoWriter::VideoWriter.Parameters:filename - automatically generatedfourcc - automatically generatedfps - automatically generatedframeSize - automatically generatedisColor - automatically generated Returns:true if video writer has been successfully initialized The method first calls VideoWriter::release to close the already opened file.

#### open public boolean open(java.lang.String filename, int apiPreference, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize)

#### open public boolean open(java.lang.String filename, int apiPreference, int fourcc, double fps, [Size](http://docs.google.com/org/opencv/core/Size.html) frameSize, boolean isColor)

#### release public void release() Closes the video writer. The method is automatically called by subsequent VideoWriter::open and by the VideoWriter destructor.

#### set public boolean set(int propId, double value) Sets a property in the VideoWriter.Parameters:propId - Property identifier from cv::VideoWriterProperties (eg. cv::VIDEOWRITER\_PROP\_QUALITY) or one of REF: videoio\_flags\_othersvalue - Value of the property. Returns:true if the property is supported by the backend used by the VideoWriter instance.

#### write public void write([Mat](http://docs.google.com/org/opencv/core/Mat.html) image) Writes the next video frameParameters:image - The written frame. In general, color images are expected in BGR format. The function/method writes the specified image to video file. It must have the same size as has been specified when opening the video writer.

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* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/opencv/videoio/Videoio.html)
* Next Class
* [Frames](http://docs.google.com/index.html?org/opencv/videoio/VideoWriter.html)
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