

MBS Real Studio QTKit Plugin Documentation

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0.1 Introduction

This is the PDF version of the documentation for the Real Studio Plug-in from Monkeybread Software Germany. Plugin part: MBS Real Studio QTKit Plugin

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Chapter 2

QTKit

2.1 class QTKitMovieMBS

class QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The QTKitMovieMBS class represents both a QuickTime movie and a movie controller.

Notes:

A movie is a collection of playable and editable media content. It describes the sources and types of the media in that collection and their spatial and temporal organization. These collections may be used for presentation (such as playback on the screen) or for the organization of media for processing (such as composition and transcoding to a different compression type). The collection may be as simple as a single file that plays at its natural size for its intrinsic duration, or it may be very complex (with multiple sources of content, rich composition rules, interactivity, and a variety of contingencies).

Just as a QuickTime movie contains a set of tracks, each of which defines the type, the segments, and the ordering of the media data it presents, a QTKitMovieMBS object is associated with instances of the QTKitTrackMBS class. In turn, a QTKitTrackMBS object is associated with a single QTKitMediaMBS object.

A QTKitMovieMBS object can be initialized from a file, from a resource specified by a URL, from a block of memory, from a pasteboard, or from an existing QuickTime movie.

Once a QTKitMovieMBS object has been initialized, it will typically be used in combination with a QT-

MovieView for playback.

An exception, `QTMovieUneditableException`, is raised whenever the client attempts to directly or indirectly edit a `QTKitMovieMBS` object that is not currently set as editable (for instance, by calling `appendSelectionFromMovie:` on an uneditable movie).

2.1.1 Methods

addChapters(names() as string, time() as QTKitTimeMBS, targetTrack as QTKitTrackMBS, byref error as NSErrorMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds chapters to the receiver using the information specified in the chapters array.

Notes:

The names and times array must have the same size.

The strings in the names array are the chapter name. The time value in the times array is the start time of the chapter. The receiving `QTKitMovieMBS` object must be editable or an exception will be raised.

Optionally you can specify the `QTKitTrackMBS` that is the target of the chapters; if none is specified, this method uses first video track in movie. If no video track is in the movie, this method uses the first audio track in the movie. If no audio track is in the movie, this method uses the first track in the movie.

If an error occurs, then an `NSError` object is returned in the error parameter.

Mac OS X v10.5 and later.

addImage(image as NSImageMBS, duration as QTKitTimeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds an image for the specified duration.

Notes: The default time scale for a new track is 600.

See also:

- 2.1.1 addImage(image as NSImageMBS, duration as QTKitTimeMBS, codec as string, codecQuality as integer) 35

addImage(image as NSImageMBS, duration as QTKitTimeMBS, codec as string, codecQuality as integer)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds an image for the specified duration.

Example:

```
// where to write?
dim outputfile as FolderItem = SpecialFolder.Desktop.Child("test.mov")

// create movie file
dim e as NSErrorMBS
dim q as QTKitMovieMBS = QTKitMovieMBS.CreateMovieWithFile(outputfile, e)

// create duration for the picture
dim duration as QTKitTimeMBS = new QTKitTimeMBS(20, 600)

// create a picture
dim p as new Picture(500,500,32)
dim g as Graphics = p.Graphics

// prepare
g.ForeColor = & cFFFFFF
g.FillRect 0,0,500,500
g.PenWidth = 10
g.PenHeight = 10

// let's add 501 frames
for i as integer = 0 to 500

// draw something. e.g. a line
g.ForeColor = & cFF0000
g.drawLine 0, 0, i,i

// add the image
dim image as new NSImageMBS(p)
q.addImage image, duration, "tiff", QTKitModuleMBS.codecHighQuality

next

// save file
if q.updateMovieFile then
q = nil
```

```
// and launch quicktime player
outputfile.Launch

else
MsgBox "Failed"
end if
```

Notes:

Use the codec parameter to specify the codec. For the quality you can use values between 0 and & h400 like codecNormalQuality (& h200).

The default time scale for a new track is 600.
See also:

- 2.1.1 addImage(image as NSImageMBS, duration as QTKitTimeMBS)

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addVideoTrackWithSize(width as double, height as double) as QTKitTrackMBS

Plugin Version: 12.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds a new video track with given pixel size.

Notes:

Video must be editable and width and height bigger than zero.
Returns new track.

ApertureMode as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the aperture mode attribute on a QTKitMovieMBS object to indicate whether aspect ratio and clean aperture correction should be performed.

Notes:

When a movie is in clean, production, or encoded pixels aperture mode, each track's dimensions are overridden by special dimensions for that mode. The original track dimensions are preserved and can be restored by setting the movie into classic aperture mode. Aperture modes are not saved in movies. The associated value is of type String and is assumed to be one of the following strings:

kApertureModeClassic

No aspect ratio or clean aperture correction is performed. This is the default aperture mode and provides compatibility with behavior in QuickTime 7.0.x and earlier. If you call `QTKitTrackMBS setDimensions`, the movie is automatically switched to classic mode.

kApertureModeClean

An aperture mode for general display. Where possible, video will be displayed at the correct pixel aspect ratio, trimmed to the clean aperture. A movie in clean aperture mode sets each track's dimensions to match the size returned by `QTKitTrackMBS apertureModeDimensionsForMode(kApertureModeClean)`.

kApertureModeProduction

An aperture mode for modal use in authoring applications. Where possible, video will be displayed at the correct pixel aspect ratio, but without trimming to the clean aperture so that the edge processing region can be viewed. A movie in production aperture mode sets each track's dimensions to match the size returned by `QTKitTrackMBS apertureModeDimensionsForMode(kApertureModeProduction)`.

kApertureModeEncodedPixels

An aperture mode for technical use. Displays all encoded pixels with no aspect ratio or clean aperture compensation. A movie in encoded pixels aperture mode sets each track's dimensions to match the size returned by `QTKitTrackMBS apertureModeDimensionsForMode(kApertureModeEncodedPixels)`.
(Read and Write computed property)

appendSelectionFromMovie(mov as QTKitMovieMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Appends to a `QTKitMovieMBS` the current selection in movie.

Notes: If the movie is not editable, this method raises an exception.

attachToCurrentThread as boolean

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Attaches a `QTKitMovieMBS` object to the current thread.

Notes:

Requires QuickTime 7.2.

This method can be called when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.

Returns true if successful, false otherwise.

attributeForKey(key as string) as variant

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The movie attribute for the given key.

Notes:

see QTKitMovieMBS*Attribute functions for valid keys.
(Read and Write computed property)

AutoAlternates as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The auto-alternate state of a QTKitMovieMBS object.

Notes: (Read and Write computed property)

autoplay

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets a movie to start playing when a sufficient amount of media data is available.

Notes: The autoplay method configures a QTKitMovieMBS object to begin playing as soon as enough data is available that the playback can continue uninterrupted to the end of the movie. This is most useful for movies being loaded from a remote URL or from an extremely slow local device. For movies stored on most local devices, this method has the same effect as the play method.

available as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether the QTKitMovieMBS class is available.

Notes: Returns true on Mac OS X 10.3 and newer.

availableMetadataFormats as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array containing strings representing the metadata formats available to the receiver.

Example:

```
dim file as FolderItem = SpecialFolder.Desktop.Child("test.mov")
dim m as new QTKitMovieMBS(file)
```

```
MsgBox join(m.availableMetadataFormats,", ")
```

Notes: Available on Mac OS X 10.7.

canLoadDataReference(data as QTKitDataReferenceMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the specified data reference can be used to initialize a QTKitMovieMBS object.

canLoadFile(file as folderitem) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the contents of the specified file can be used to initialize a QTKitMovieMBS object.

canLoadPasteboard as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the contents of the specified pasteboard can be used to initialize a QTKitMovieMBS object.

canLoadURL(url as string) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the contents of the specified URL can be used to initialize a QTKitMovieMBS object.

canUpdateMovieFile as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Indicates whether a movie file can be updated with changes made to the movie object.

Notes:

This method returns false if any of the following conditions are true:

* The movie is not associated with a file.

The movie is not savable (has 'nsav' user data set to 1).

The movie file is not writable.

The movie file does not contain a movie atom (indicating that the movie was imported from a non-movie format).

Otherwise, the method returns true.

Using this method, an application can check first to see if the movie file can be updated; if not, it can prompt the user for a new name and location of a file in which to save the updated movie.

chapterCount as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the number of chapters in the receiver, or 0 if there are no chapters.

Notes: Mac OS X v10.5 and later.

chapterIndexForTime(time as QTKitTimeMBS) as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the 0-based index of the chapter that contains the specified movie time.

Notes: Mac OS X v10.5 and later.

chapters as Dictionary()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array containing information about the chapters in the receiver.

Notes:

Each array element is an Dictionary containing key-value pairs. Currently two keys are defined for this dictionary, QTMovieChapterName and QTMovieChapterStartTime. The value for the QTMovieChapterName key is an NSString object that is the chapter name. The value for the QTMovieChapterStartTime key is an QTimeMBS object that indicates the start time of the chapter.

Mac OS X v10.5 and later.

commonMetadata as QTKitMetadataItemMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array containing QTMetadataItem objects for each common metadata key for which a value for the current locale is available.

Example:

```
dim file as FolderItem = SpecialFolder.Desktop.Child("test.mov")
dim m as new QTKitMovieMBS(file)

dim metadatas() as QTKitMetadataItemMBS = m.commonMetadata

for each md as QTKitMetadataItemMBS in metadatas
  MsgBox md.key+": "+md.stringValue
next
```

Notes:

Returns an array containing QTMetadataItem objects for each common metadata key for which a value for the current locale is available; may be nil if there is no metadata that's appropriately localized.

The returned metadata may be tagged with default locale information or with no locale information, if that's the best available choice.

Available on Mac OS X 10.7.

Constructor

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates an empty QTKitMovieMBS object.

See also:

- 2.1.1 Constructor(file as folderitem) 42
- 2.1.1 Constructor(mov as movie, byref error as NSErrorMBS) 43

Constructor(file as folderitem)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Initializes a QTKitMovieMBS object with the data in the file.

Example:

```
dim f as FolderItem=SpecialFolder.Desktop.Child("test.mov")
dim q as new QTKitMovieMBS(f)
```

```
MsgBox q.duration.String
```

Notes:

If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

Note that alias files should not be passed into this method; the client application is responsible for resolving aliases before handing them to QTKit methods.

See also:

- 2.1.1 Constructor 42
- 2.1.1 Constructor(mov as movie, byref error as NSErrorMBS) 43

Constructor(mov as movie, byref error as NSErrorMBS)

Plugin Version: 9.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QTKit-MovieMBS object based on a REALbasic movie object.

Notes:

The object reference is kept with the QTKitMovie object so RB does not free the movie too early. Error gives you an error message if this fails.

See also:

- 2.1.1 Constructor 42
- 2.1.1 Constructor(file as folderitem) 42

Copyright as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The copyright string of a QTKitMovieMBS object.

Notes: (Read and Write computed property)

CreateMovieWithData(data as memoryblock, byref error as NSErrorMBS) as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QTKit-MovieMBS object initialized with the data specified by data.

Notes: If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

CreateMovieWithDataReference(ref as QTKitDataReferenceMBS, byref error as NSErrorMBS) as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QTKit-MovieMBS object initialized with the data specified by the data reference ref.

Notes: If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

CreateMovieWithFile(file as folderitem, byref error as NSErrorMBS) as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QTKit-MovieMBS object initialized with the data in the file.

Example:

```
// where to write?
dim outputfile as FolderItem = SpecialFolder.Desktop.Child("test.mov")

// create movie file
dim e as NSErrorMBS
dim q as QTKitMovieMBS = QTKitMovieMBS.CreateMovieWithFile(outputfile, e)

// create duration for the picture
dim duration as QTKitTimeMBS = new QTKitTimeMBS(20, 600)

// create a picture
dim p as new Picture(500,500,32)
dim g as Graphics = p.Graphics

// prepare
g.ForeColor = & cFFFFFF
g.FillRect 0,0,500,500
g.PenWidth = 10
g.PenHeight = 10

// let's add 501 frames
for i as integer = 0 to 500

// draw something. e.g. a line
g.ForeColor = & cFF0000
g.drawline 0, 0, i,i

// add the image
dim image as new NSImageMBS(p)
q.addImage image, duration, "tiff", QTKitModuleMBS.codecHighQuality

next

// save file
if q.updateMovieFile then
q = nil
// and launch quicktime player
outputfile.Launch
else
MsgBox "Failed"
```

end if

Notes: If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

CreationTime as date

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The creation time of a QTKitMovieMBS object.

Notes: (Read and Write computed property)

currentFrameImage as NSImageMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an NSImage for the frame at the current time in a QTKitMovieMBS.

CurrentSizeHeight as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current size of a QTKitMovieMBS object.

CurrentSizeWidth as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current size of a QTKitMovieMBS object.

DataSize as Int64

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The data size of a QTKitMovieMBS.

Notes: (Read and Write computed property)

deleteSegment(range as QTKitTimeRangeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Deletes from a QTKitMovieMBS the segment delimited by segment.

Notes: If the movie is not editable, this method raises an exception.

detachFromCurrentThread as boolean

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Detaches a QTKitMovieMBS object from the current thread.

Notes:

Requires QuickTime 7.2.

This method can be called when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Returns true if successful, false otherwise.

DisplayName as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The display name of a QTKitMovieMBS object.

Notes:

A display name is stored as user data in a movie file and hence may differ from the base name of the movies filename or URL.

(Read and Write computed property)

DontInteractWithUser as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** When set in a dictionary passed to movieWithAttributes or initWithAttributes, this prevents QuickTime from interacting with the user during movie initialization.

Notes: (Read and Write computed property)

duration as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the duration of a QTKitMovieMBS object as QTTime.

Example:

```
dim f as FolderItem=SpecialFolder.Desktop.Child("test.mov")
dim q as new QTKitMovieMBS(f)
```

```
MsgBox q.duration.String
```

Editable as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The editable setting.
Notes:

This value is true if the movie can be edited.
(Read and Write computed property)

enterQTKitOnThread

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Performs any QTKit-specific initialization for the current (non-main) thread.

Notes:

A call to this method must be paired with a subsequent call to exitQTKitOnThread.
Requires QuickTime 7.2.

enterQTKitOnThreadDisablingThreadSafetyProtection

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Performs any QTKit-specific initialization for the current (non-main) thread, allowing non-threadsafe components.

Notes:

A call to this method must be paired with a subsequent call to `exitQTKitOnThread`.
Requires QuickTime 7.2.

exitQTKitOnThread

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Performs any QTKit-specific shut-down for the current (non-main) thread.

Notes:

A call to this method must be paired with a previous call to `enterQTKitOnThread` or `enterQTKitOnThread-DisablingThreadSafetyProtection`.
Requires QuickTime 7.2.

exportToFile(file as folderitem, byref error as NSErrorMBS, Type as string, Manufacturer as string, Settings as memoryblock) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the movie file was successfully created and false otherwise.

Example:

```
dim f as FolderItem=SpecialFolder.Desktop.Child("test.mov")
dim q as new QTKitMovieMBS(f)
dim e as NSErrorMBS

f=SpecialFolder.Desktop.Child("test2.aif")

MsgBox str(q.Handle)

if q.exportToFile(f,e,"AIFF","soun","") then
MsgBox "ok"
else
MsgBox "Fail"
end if

if e<>Nil then
MsgBox e.localizedDescription
end if
```

Notes:

Exports the movie with a new codec.

This method returns true if the movie file was successfully created and false otherwise. False will also be returned if the load state of the target is less than `kLoadStateComplete`, in which case no attempt is made to write the `QTKitMovieMBS` into a file.

FileName as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The file name string of a `QTKitMovieMBS` object.

Notes: (Read and Write computed property)

flattenToFile(file as folderitem, byref error as NSErrorMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the movie file was successfully created and false otherwise.

Example:

```
dim f as FolderItem=SpecialFolder.Desktop.Child("test.mov")
dim q as new QTKitMovieMBS(f)
dim e as NSErrorMBS

f=SpecialFolder.Desktop.Child("test2.mov")

if q.writeToFile(f,e) then // save self contained movie
  MsgBox "ok"
else
  MsgBox "Fail"
end if

if e<>Nil then
  MsgBox e.localizedDescription
end if
```

Notes:

Flatten makes sure that the movie is free of external references.

This method returns true if the movie file was successfully created and false otherwise. False will also be returned if the load state of the target is less than `kLoadStateComplete`, in which case no attempt is made to write the `QTKitMovieMBS` into a file.

frameImageAtTime(time as QTKitTimeMBS) as NSImageMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an `NSImage` for the frame at the time `time` in a `QTKitMovieMBS`.

generateApertureModeDimensions

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds information to a `QTKitMovieMBS` needed to support aperture modes for tracks created with applications and/or versions of QuickTime that did not support aperture mode dimensions.

Notes: If the image descriptions in video tracks lack tags describing clean aperture and pixel aspect ratio information, the media data is scanned to see if the correct values can be divined and attached. Then the aperture mode dimensions are calculated and set. Afterwards, the `HasApertureModeDimensions` property will be set to true for those tracks. Tracks that do not support aperture modes are not changed.

gotoBeginning

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Repositions the play position to the beginning of the movie.

Notes: If the movie is playing, the movie continues playing from the new position.

gotoEnd

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Repositions the play position to the end of the movie.

Notes: If the movie is playing in one of the looping modes, the movie continues playing accordingly; otherwise, play stops.

gotoNextSelectionPoint

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Repositions the movie to the next selection point.

gotoPosterTime

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Repositions the play position to the movies poster time.

Notes: If no poster time is defined, the movie jumps to the beginning. If the movie is playing, the movie continues playing from the new position.

gotoPreviousSelectionPoint

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Repositions the movie to the previous selection point.

HasApertureModeDimensions as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The aperture mode dimensions set on any track in this QTKitMovieMBS object, even if those dimemsions are all identical to the classic dimensions (as is the case for content with square pixels and no edge-processing region).

Notes: (Read and Write computed property)

HasAudio as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The audio data setting.

Notes:

This value is true if the movie contains audio data..
(Read and Write computed property)

hasChapters as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the receiver has chapters, false otherwise.

Notes: Mac OS X v10.5 and later.

HasDuration as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The duration setting.

Notes:

This value is true if the movie has a duration.

(Read and Write computed property)

HasVideo as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The video data setting.

Notes:

This value is true if the movie contains video data.

(Read and Write computed property)

insertEmptySegmentAt(range as QTKitTimeRangeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** inserts into a QTKitMovieMBS an empty segment delimited by the range range.

Notes: If the movie is not editable, this method raises an exception.

insertSegmentOfMovie(mov as QTKitMovieMBS, fromRange as QTKitTimeRangeMBS, scaled-ToRange as QTKitTimeRangeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Inserts the specified segment from the movie into the receiver, scaled to the range dstRange.

Notes: This is essentially an Add Scaled operation on a movie. If the movie is not editable, this method raises an exception.

See also:

- 2.1.1 insertSegmentOfMovie(mov as QTKitMovieMBS, timeRange as QTKitTimeRangeMBS, atTime as QTKitTimeMBS) 53

insertSegmentOfMovie(mov as QTKitMovieMBS, timeRange as QTKitTimeRangeMBS, atTime as QTKitTimeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Inserts into a QTKitMovieMBS at time time the selection in movie delimited by the time range range.

Notes: If the movie is not editable, this method raises an exception.

See also:

- 2.1.1 insertSegmentOfMovie(mov as QTKitMovieMBS, fromRange as QTKitTimeRangeMBS, scaledToRange as QTKitTimeRangeMBS) 52

insertSegmentOfTrack(Track as QTKitTrackMBS, fromRange as QTKitTimeRangeMBS, scaledToRange as QTKitTimeRangeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Inserts the given range from the track into the movie and scaled it to the new range.

Notes: Requires QuickTime 7.2.

See also:

- 2.1.1 insertSegmentOfTrack(Track as QTKitTrackMBS, timeRange as QTKitTimeRangeMBS, atTime as QTKitTimeMBS) 53

insertSegmentOfTrack(Track as QTKitTrackMBS, timeRange as QTKitTimeRangeMBS, atTime as QTKitTimeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Inserts the given range from the track into the movie at the given time.

Notes: Requires QuickTime 7.2.

See also:

- 2.1.1 insertSegmentOfTrack(Track as QTKitTrackMBS, fromRange as QTKitTimeRangeMBS, scaledToRange as QTKitTimeRangeMBS) 53

invalidate

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Invalidates a QTKitMovieMBS object immediately.

Notes: By the time this method has returned, the receiver will have detached itself from any resources it is using, disposing of these resources when appropriate. Attempting to make any non-trivial use of the receiver after invalidating it will result in undefined behavior. This method does not release the receiver, so under retain/release memory management release must still be called on the receiver for it to be fully deallocated. Because this method defeats sharing of QTKitMovieMBS objects, it should only be called when it is known that the object is no longer needed. This method can be called when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

IsActive as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether the movie is active.

Notes: (Read and Write computed property)

isIdling as boolean

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the current idling state of a QTKitMovieMBS object.

Notes:

Requires QuickTime 7.2.

This method returns the idling state of a QTKitMovieMBS object (that is, whether it is being tasked). Movies attached to background threads should not be idled; if they are idled, unexpected behavior can result. This method cannot be called when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Returns true if the movie is idling, false otherwise.

IsInteractive as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The interactive setting.

Notes:

This value is true if the movie is interactive.

(Read and Write computed property)

See also:

- 2.1.1 IsInteractive as boolean

55

IsInteractive as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The interactive setting.

Notes:

This value is true if the movie contains video data.

(Read and Write computed property)

See also:

- 2.1.1 IsInteractive as boolean

55

IsLinear as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The linear setting.

Notes:

This value is true if the movie is linear, as opposed to a non-linear QuickTime VR movie.

(Read and Write computed property)

IsSteppable as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The steppable setting.

Notes:

This value is true if the movie can step from frame to frame.
(Read and Write computed property)

LoadMovieFromData(data as memoryblock, byref error as NSErrorMBS) as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** reates a QTKit-MovieMBS object initialized with the data specified by data.

Notes: If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

LoadMovieFromDataReference(ref as QTKitDataReferenceMBS, byref error as NSErrorMBS) as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QTKit-MovieMBS object intialized with the data specified by the data reference dataReference.

Notes: If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

LoadMovieFromFile(file as folderitem, byref error as NSErrorMBS) as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QTKit-MovieMBS object initialized with the data in the file specified by the name file.

Notes: If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

LoadMovieFromMovie(mov as QTKitMovieMBS, range as QTKitTimeRangeMBS, byref error as NSErrorMBS) as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Initializes a QTKit-MovieMBS object with some or all of the data from an existing QTKitMovieMBS object movie.

Notes: The section of data used is delimited by the range range. If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

LoadMovieFromPasteboard(byref error as NSErrorMBS) as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QTKit-MovieMBS object initialized with the contents of the pasteboard specified by pasteboard.

Notes:

These contents can be a QuickTime movie (of type Movie), a file path, or data of type QTMoviePasteboard-Type.

If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

LoadMovieFromURL(url as string, byref error as NSErrorMBS) as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QTKit-MovieMBS object initialized with the data in the URL specified by url.

Notes: If a QTKitMovieMBS object cannot be created, an NSError object is returned in the location pointed to by error.

LoadState as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The load state value.

Notes:

Use the constants:

kLoadStateError	= -1	an error occurred while loading the movie
kLoadStateLoading	= 1000	the movie is loading
kLoadStateLoaded	= 2000	the movie atom has loaded; it's safe to query movie properties
kLoadStatePlayable	= 10000	the movie has loaded enough media data to begin playing
kLoadStatePlaythroughOK	= 20000	the movie has loaded enough media data to play through to the end
kLoadStateComplete	= 100000	the movie has loaded completely

(Read and Write computed property)

Loops as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The looping setting.
Notes:

This value is true if the movie is set to loop.
 (Read and Write computed property)

LoopsBackAndForth as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The palindrome looping setting;
Notes:

This value is true if the movie is set to loop back and forth. Note that the Loops and LoopsBackAndForth properties are independent and indeed exclusive. Loops property is used to get and set the state of normal looping; LoopsBackAndForth property is used to get and set the state of palindrome looping.
 (Read and Write computed property)

metadataForFormat(format as string) as QTKitMetadataItemMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an NSArray of QTMetadataItem objects having a specified format.

Example:

```
dim file as FolderItem = SpecialFolder.Desktop.Child("test.mov")
dim m as new QTKitMovieMBS(file)

// get formats available?
dim formats() as string = m.availableMetadataFormats
// lookup all values for first format
dim metadatas() as QTKitMetadataItemMBS = m.metadataForFormat(Formats(0))

// and display
for each md as QTKitMetadataItemMBS in metadatas
  MsgBox md.key+": " + md.stringValue
next
```

Notes:

format: The metadata format for which items are requested.

Returns an array containing all QTMetadataItem objects of the receiver that have the specified format; may be nil if there is no metadata of the specified format.

Available on Mac OS X 10.7.

ModificationTime as date

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The modification time of a QTKitMovieMBS object.

Notes: (Read and Write computed property)

Movie as Movie

Plugin Version: 9.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** The REALbasic movie for this QTKit movie.

Notes:

If this QTKit movie references a REALbasic movie, you get this one back.

Else a new REALbasic movie is created using the internal QuickTime movie reference and this REALbasic movie is returned and also locked till the destructor is called.

When a REALbasic movie or a QTKitMovie is destroyed, the QuickTime movie behind is destroyed. If you still use that destroyed movie, your application will crash.

movieAttributes as dictionary

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A dictionary containing the current values of all defined movie attributes.

Notes: (Read and Write computed property)

MovieControllerHandle as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the QuickTime movie controller associated with a QTKitMovieMBS object.

Notes:

Available in Mac OS X v10.3 and later.
Not available to 64-bit applications.

movieFileTypes(options as integer) as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of file types that can be opened as QuickTime movies.

Notes:

Passing zero as the options parameter returns an array of all the common file types that QuickTime can open in place on the current system. This array includes the file type .mov and .mqv, and any files types that can be opened using a movie importer that does not need to write data into a new file while performing the import. This array excludes any file types for still images and any file types that require an aggressive movie importer (for instance, the movie importer for text files).

use this constants: QTIncludeStillImageTypes, QTIncludeTranslatableTypes, QTIncludeAggressiveTypes, QTIncludeCommonTypes and QTIncludeAllTypes.

movieFormatRepresentation as memoryblock

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the movies data in a string.

MovieHandle as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the QuickTime movie associated with a QTKitMovieMBS object.

Notes:

Available in Mac OS X v10.3 and later.

Not available to 64-bit applications.

movieTypesWithOptions(options as integer) as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of UTIs that QuickTime can open.

Notes: This method gets an array of strings that specify the uniform type identifiers (UTIs) for types of files that QuickTime can open. The types parameter is interpreted just like the types parameter to movieFileTypes.

movieUnfilteredFileTypes as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of file types that can be used to initialize a QTKitMovieMBS object.

movieUnfilteredPasteboardTypes as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of pasteboard types that can be used to initialize a QTKitMovieMBS object.

muted as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the movies mute setting.

Notes: (Read and Write computed property)

NaturalSizeHeight as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The natural size of a QTKitMovieMBS object.

NaturalSizeWidth as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The natural size of a QTKitMovieMBS object.

play

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Plays the movie.

PlaysAllFrames as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The play-all-frames setting.

Notes:

This value is true if the movie will play all frames.
(Read and Write computed property)

PlaysSelectionOnly as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The play-selection setting.

Notes:

This value is true if the movie will play only the current selection.
(Read and Write computed property)

posterImage as NSImageMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an NSImage for the poster frame of a QTKitMovieMBS.

PosterTime as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The movie poster time of a QTKitMovieMBS object.

Notes: (Read and Write computed property)

PreferredMuted as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The preferred mute setting

Notes:

This value is true if the movie preferred mute setting is muted.
(Read and Write computed property)

PreferredRate as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The preferred rate.

Notes: (Read and Write computed property)

PreferredVolume as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The preferred volume.

Notes: (Read and Write computed property)

PreviewMode as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The preview mode setting.

Notes:

This value is true if the movie is in preview mode.
(Read and Write computed property)

PreviewRange as QTKitTimeRangeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The preview range of a QTKitMovieMBS object.

Notes: (Read and Write computed property)

QTAddImageCodecQuality as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys that you can use to specify movie attributes, using the addImage method.

Notes:

The image codec value; the value for this key is of type Number.
Available in Mac OS X v10.4 and later.

QTAddImageCodecType as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys that you can use to specify movie attributes, using the addImage method.

Notes:

The image codec string; the value for this key is of type String.
Available in Mac OS X v10.4 and later.

QTDisallowedForInitializationPurposeException as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The name of the special NSEException.

Notes:

The value of this string is used with NSEExceptionMBS.name.

An exception, QTDisallowedForInitializationPurposeException, is raised whenever the client attempts to call a method that is not allowed under a requested movie-opening behavior. For example, if a QTKitMovieMBS object is initialized with QTMovieOpenForPlaybackAttribute set to true, then QTDisallowedForInitializationPurposeException is raised if the client attempts to call methods that export the media data. An exception, QTMovieUneditableException, is raised whenever the client attempts to directly or indirectly edit a QTKitMovieMBS object that is not currently set as editable (for instance, by calling appendSelectionFromMovie on an uneditable movie).

QTMovieActiveSegmentAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The active segment of a QTKitMovieMBS object; the value for this key is a QTTimeRangeMBS object. This constant is available in Mac OS X 10.4 and later, but deprecated in Mac OS X 10.5. This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true. Available in Mac OS X v10.4 and later.

QTMovieApertureModeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

Sets the aperture mode attribute on a QTKitMovieMBS object to indicate whether aspect ratio and clean aperture correction should be performed. This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true. Available in Mac OS X v10.5 and later.

QTMovieApertureModeClassic as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the aperture mode constants.

Notes: See the ApertureMode property for details.

QTMovieApertureModeClean as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the aperture mode constants.

Notes: See the ApertureMode property for details.

QTMovieApertureModeDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Issued when the aperture mode of the target QTKitMovieMBS object changes.
Available in Mac OS X v10.5 and later.

QTMovieApertureModeEncodedPixels as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the aperture mode constants.

Notes: See the ApertureMode property for details.

QTMovieApertureModeProduction as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the aperture mode constants.

Notes: See the ApertureMode property for details.

QTMovieAskUnresolvedDataRefsAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

QTMovieAutoAlternatesAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The auto-alternate state of a QTKitMovieMBS object. The value for this key is a boolean. This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true. Available in Mac OS X v10.4 and later.

QTMovieChapterDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Issued when the chapter associated with QTKitMovieMBS changes. This notification contains no information in the userInfo dictionary.

Available in Mac OS X v10.4 and later.

QTMovieChapterListDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Issued when the chapter list associated with QTKitMovieMBS changes.
This notification contains no information in the userInfo dictionary.

Available in Mac OS X v10.4 and later.

QTMovieChapterName as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key strings in the chapter info dictionary.

Notes:

A key indicating the chapter name in the dictionaries that are array elements in the array returned by chapters or passed to addChapters.

Available in Mac OS X v10.5 and later.

QTMovieChapterStartTime as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key strings in the chapter info dictionary.

Notes:

A key indicating the chapter start time in the dictionaries that are array elements in the array returned by chapters or passed to addChapters.

Available in Mac OS X v10.5 and later.

QTMovieChapterTargetTrackAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key strings in the chapter info dictionary.

Notes:

A key indicating the track in the QTKitMovieMBS object that is the target of the chapter track.

Available in Mac OS X v10.5 and later.

QTMovieCloseWindowRequestNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with `NSNotificationObserverMBS` class.

Notes:

Sent when a request is made to close the movies window.
This notification contains no information in the `userInfo` dictionary.

Available in Mac OS X v10.4 and later.

QTMovieCopyrightAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The copyright string of a `QTKitMovieMBS` object; the value for this key is of type string.
This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.
Available in Mac OS X v10.4 and later.

QTMovieCreationTimeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The creation time of a `QTKitMovieMBS` object; the value for this key is of type date.
This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.
Available in Mac OS X v10.4 and later.

QTMovieCurrentSizeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The current size of a QTKitMovieMBS object; the value for this key is a NSSizeMBS object.

This attribute can be read and written. This attribute cannot be read or written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true. This attribute is deprecated in QTKit version 7.6 and later.

Available in Mac OS X v10.4 and later.

QTMovieCurrentTimeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The current time of a QTKitMovieMBS object; the value for this key is a QTTimeMBS object.

This attribute can be read and written. This attribute can be read and written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieDataAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

QTMovieDataReferenceAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

QTMovieDataSizeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The data size of a QTKitMovieMBS. The value for this key is a Int64.
This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.
Available in Mac OS X v10.4 and later.

QTMovieDelegateAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The delegate for a QTKitMovieMBS object. The value for this key is of type NSObject.
This attribute can be read and written. This attribute can be read and written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.
Available in Mac OS X v10.4 and later.

QTMovieDidEndNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Sent when the movie is done or at its end.
This notification contains no userInfo parameters. It is equivalent to the standard player controllers mcActionMovieFinished action.

Available in Mac OS X v10.4 and later.

QTMovieDisplayNameAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The display name of a QTKitMovieMBS object. A display name is stored as user data in a movie file and hence may differ from the base name of the movies filename or URL. The value for this key is of type string. This attribute can be read and written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.
Available in Mac OS X v10.4 and later.

QTMovieDontInteractWithUserAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

When set in a dictionary passed to movieWithAttributes or initWithAttributes, this prevents QuickTime from interacting with the user during movie initialization. The value for this key is a boolean.
Available in Mac OS X v10.4 and later.

QTMovieDurationAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The duration of a QTKitMovieMBS object; the value for this key is a QTTimeMBS object.
Available in Mac OS X v10.4 and later.

QTMovieEditabilityDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Sent when the editable state of a movie has changed.

Available in Mac OS X v10.4 and later.

QTMovieEditableAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The editable setting; the value for this key is a boolean. This value is true if the movie can be edited. This attribute can be read and written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true. Available in Mac OS X v10.4 and later.

QTMovieEditedNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with `NSNotificationObserverMBS` class.

Notes:

Sent when a movie has been edited.
This notification contains no `userInfo` dictionary.

Available in Mac OS X v10.4 and later.

QTMovieEnterFullScreenRequestNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with `NSNotificationObserverMBS` class.

Notes:

Sent when a request is made to play back a movie in full screen mode.
This notification contains no information in the `userInfo` dictionary.

Available in Mac OS X v10.4 and later.

QTMovieExitFullScreenRequestNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Sent when a request is made to play back a movie in normal windowed mode.
This notification contains no information in the userInfo dictionary.

Available in Mac OS X v10.4 and later.

QTMovieExport as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys that you can use to specify movie attributes, using the writeToFile method.

Notes:

The movie export setting; the value for this key is boolean.
Available in Mac OS X v10.4 and later.

QTMovieExportManufacturer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys that you can use to specify movie attributes, using the writeToFile method.

Notes:

The export manufacturer value; the value for this key is an integer.
Available in Mac OS X v10.4 and later.

QTMovieExportSettings as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys that you can use to specify movie attributes, using the writeToFile method.

Notes:

The movie export settings; the value of this key is of type string, interpreted as a QTAtomContainer. Available in Mac OS X v10.4 and later.

QTMovieExportType as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys that you can use to specify movie attributes, using the writeToFile method.

Notes:

The movie export type; the value for this key is an integer. Available in Mac OS X v10.4 and later.

QTMovieFileNameAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The file name string of a QTKitMovieMBS object; the value for this key is of type string. This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true. Available in Mac OS X v10.4 and later.

QTMovieFileOffsetAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

QTMovieFlatten as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys that you can use to specify movie attributes, using the writeToFile method.

Notes:

The movie flatten setting; the value for this key is a boolean.
Available in Mac OS X v10.4 and later.

QTMovieFrameImageDeinterlaceFields as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys for attributes passed to frameImageAtTime method.

Notes:

Image is de-interlaced. Value is a boolean (default = true).
Available in Mac OS X v10.5 and later.

QTMovieFrameImageHighQuality as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys for attributes passed to frameImageAtTime method.

Notes:

Image is high quality. Value is boolean (default = true).
Available in Mac OS X v10.5 and later.

QTMovieFrameImageOpenGLContext as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys for attributes passed to frameImageAtTime method.

Notes:

For CVOpenGLTextureRef, the OpenGL context to use. The value is an NSValue (CGLContextObj).
Available in Mac OS X v10.5 and later.

QTMovieFrameImagePixelFormat as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys for attributes passed to frameImageAtTime method.

Notes:

For CVOpenGLTextureRef, the pixel format to use. Value is an NSValue (CGLPixelFormatObj). Available in Mac OS X v10.5 and later.

QTMovieFrameImageRepresentationsType as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys for attributes passed to frameImageAtTime method.

Notes:

For NSImage, the image representations in the image. Value is an Array of String; strings are, for example, NSBitmapImageRep class description. The default is NSBitmapImageRep. Available in Mac OS X v10.5 and later.

QTMovieFrameImageSessionMode as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys for attributes passed to frameImageAtTime method.

Notes:

Indicates that two or more calls to frameImageAtTime will be made on the same QTKitMovieMBS object. By adding this key with the associated value that is a boolean to the dictionary of attributes, an application indicates that it will make more than one call to frameImageAtTime on the same QTKitMovieMBS object. This knowledge permits QTKitMovieMBS to cache certain objects and data structures used to generate a frame image, thereby improving performance. When the caller has obtained all the frame images desired from a given QTKitMovieMBS object, the caller should follow those session calls with a call where this value is false; this is a signal to QTKitMovieMBS to dispose of that cached data.

Mac OS X v10.6; QuickTime 7.6.3 and later.

QTMovieFrameImageSingleField as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys for attributes passed to `frameImageAtTime` method.

Notes:

Image is single field. Value is a boolean (default = true).
Available in Mac OS X v10.5 and later.

QTMovieFrameImageSize as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys for attributes passed to `frameImageAtTime` method.

Notes:

Size of the image. The value is an `NSSizeMBS` object. The default image size is the current movie size.
Available in Mac OS X v10.5 and later.

QTMovieFrameImageType as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the dictionary keys for attributes passed to `frameImageAtTime` method.

Notes: Type of the image. The value is a String. The default image type is `NSImage`.

QTMovieFrameImageTypeCGImageRef as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A value for the `QTMovieFrameImageType` key of the `QTKitMovieMBS` `frameImageAtTime` attributes dictionary.

Notes:

Specifies that the type of image returned should be a `CGImageRef`.
Available in Mac OS X v10.5 and later.

QTMovieFrameImageTypeCIIImage as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A value for the QTMovieFrameImageType key of the QTKitMovieMBS frameImageAtTime attributes dictionary.

Notes:

Specifies that the type of image returned should be a CIIImage.
Available in Mac OS X v10.5 and later.

QTMovieFrameImageTypeCVOpenGLTextureRef as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A value for the QTMovieFrameImageType key of the QTKitMovieMBS frameImageAtTime attributes dictionary.

Notes:

Specifies that the type of image returned should be a CVOpenGLTextureRef. Clients that specify this attribute must also specify the OpenGL context and pixel format for the texture using the QTMovieFrameImageOpenGLContext and QTMovieFrameImagePixelFormat attribute keys.
Available in Mac OS X v10.5 and later.

QTMovieFrameImageTypeCVPixelFormat as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A value for the QTMovieFrameImageType key of the QTKitMovieMBS frameImageAtTime attributes dictionary.

Notes:

Specifies that the type of image returned should be a CVPixelFormat.
Available in Mac OS X v10.5 and later.

QTMovieFrameImageTypeNSImage as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A value for the QTMovieFrameImageType key of the QTKitMovieMBS frameImageAtTime attributes dictionary.

Notes:

Specifies that the type of image returned should be an NSImage.
Available in Mac OS X v10.5 and later.

QTMovieHasApertureModeDimensionsAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The aperture mode dimensions set on any track in this QTKitMovieMBS object, even if those dimensions are all identical to the classic dimensions (as is the case for content with square pixels and no edge-processing region). The value for this key is a boolean.

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.5 and later.

QTMovieHasAudioAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The audio data setting; the value for this key is a boolean. This value is true if the movie contains audio data.

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieHasDurationAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The duration setting; the value for this key is a boolean. This value is true if the movie has a duration. (Some types of movies, for instance QuickTime VR movies, have no duration.)

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieHasVideoAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The video data setting; the value for this key is a boolean. This value is true if the movie contains video data.

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieIsActiveAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The active setting; the value for this key is a boolean.

This attribute can be read and written. This attribute can be read and written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieIsInteractiveAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The interactive setting; the value for this key is a boolean. This value is true if the movie is interactive.

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieIsLinearAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The linear setting; the value for this key is a boolean. This value is true if the movie is linear, as opposed to a non-linear QuickTime VR movie.

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.

Available in Mac OS X v10.4 and later.

QTMovieIsSteppableAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The steppable setting; the value for this key is a boolean. This value is true if the movie can step from frame to frame.

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.

Available in Mac OS X v10.4 and later.

QTMovieLoadStateAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The load state value; the value for this key is of type `NSNumber`, interpreted as a long.

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.

Mac OS X v10.5 and later.

QTMovieLoadStateDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Sent when the load state of a movie has changed.
Available in Mac OS X v10.4 and later.

QTMovieLoadStateErrorAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The load state error of a QTKitMovieMBS object; the value for this key is of type NSError.
This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

QuickTime 7.6.3 and later.

QTMovieLoopModeDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Sent when a change is made in a movies looping mode.
This notification contains no information in the userInfo dictionary.

Available in Mac OS X v10.4 and later.

QTMovieLoopsAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The looping setting; the value for this key is a boolean. This value is true if the movie is set to loop, false otherwise.

This attribute can be read and written. This attribute can be read and written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieLoopsBackAndForthAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The palindrome looping setting; the value for this key is a boolean. This value is true if the movie is set to loop back and forth. Note that QTMovieLoopsAttribute and QTMovieLoopsBackAndForthAttribute are independent and indeed exclusive. QTMovieLoopsAttribute is used to get and set the state of normal looping; QTMovieLoopsBackAndForthAttribute is used to get and set the state of palindrome looping.

This attribute can be read and written. This attribute can be read and written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieMessageNotificationParameter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Used as a key in the userInfo dictionary passed to the QTMovieMessageNotification notification to indicate the message. The associated value is an NSString.

QTMovieMessageStringPostedNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Sent when a movie message has been received by the movie controller.

Movie messages can be sent to an application by wired actions (for instance, a wired sprite) or by code that issues the `mcActionShowMessageString` movie controller action. The `userInfo` dictionary contains a single entry whose value is of type `NSString`, which is the movie message.

Available in Mac OS X v10.4 and later.

QTMovieModificationTimeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The modification time of a `QTKitMovieMBS` object; the value for this key is of type `date`.

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to `true`.

Available in Mac OS X v10.4 and later.

QTMovieMutedAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The mute setting; the value for this key is a boolean. This value is `true` if the movie volume is muted.

This attribute can be read and written. This attribute can be read and written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to `true`.

Available in Mac OS X v10.4 and later.

QTMovieNaturalSizeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The natural size of a `QTKitMovieMBS` object; the value for this key is a `NSSizeMBS` object.

This attribute can be read but not written. This attribute can be read but not written when the movie has

been initialized with `QTMovieOpenForPlaybackAttribute` set to true. Available in Mac OS X v10.4 and later.

QTMovieNaturalSizeDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with `NSNotificationObserverMBS` class.

Notes:

Posted whenever the natural size (that is, the original dimensions of the movie when it was authored) changes, either because the movie was edited or because new information about the movie was loaded asynchronously. All clients that display movies using dimensions based on the `QTMovieNaturalSizeAttribute` should respond to this notification to update their display as necessary.

QuickTime 7.6.3 and later.

QTMovieOpenAsyncOKAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

QTMovieOpenAsyncRequiredAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

QTMovieOpenForPlaybackAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

QTMoviePasteboardAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

QTMoviePasteboardType as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This constant is the type of movie data passed on the pasteboard.

Notes:

Specifies the type of movie data passed on the pasteboard.
Available in Mac OS X v10.4 and later.

QTMoviePlaysAllFramesAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The play-all-frames setting; the value for this key is a boolean. This value is true if the movie will play all frames.

This attribute can be read and written. This attribute can be read and written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMoviePlaysSelectionOnlyAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The play-selection setting; the value for this key is a boolean. This value is true if the movie will play only the current selection.

This attribute can be read and written. This attribute can be read and written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMoviePosterTimeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The movie poster time of a QTKitMovieMBS object; the value for this key is a QTTimeMBS object. This attribute can be read and written. This attribute can be read and written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true. Available in Mac OS X v10.4 and later.

QTMoviePreferredMutedAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The preferred mute setting; the value for this key is a boolean. This value is true if the movie preferred mute setting is muted.

This attribute can be read and written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

The preferred settings refer to settings contained in the movie file (or movie data) itself. The actual settings refer to the actual values of those settings. For instance, a movie can have a preferred rate of 2, and a good movie playing application will respect that setting. But an application or the user can set the actual rate to some other value. The non-preferred settings can change dynamically, but the preferred settings will not.

Available in Mac OS X v10.4 and later.

QTMoviePreferredRateAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The preferred rate; the value for this key a float.

This attribute can be read and written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

The preferred settings refer to settings contained in the movie file (or movie data) itself. The actual settings

refer to the actual values of those settings. For instance, a movie can have a preferred rate of 2, and a good movie playing application will respect that setting. But an application or the user can set the actual rate to some other value. The non-preferred settings can change dynamically, but the preferred settings will not. Available in Mac OS X v10.4 and later.

QTMoviePreferredVolumeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The preferred volume; the value for this key a float.

This attribute can be read and written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.

The preferred settings refer to settings contained in the movie file (or movie data) itself. The actual settings refer to the actual values of those settings. For instance, a movie can have a preferred rate of 2, and a good movie playing application will respect that setting. But an application or the user can set the actual rate to some other value. The non-preferred settings can change dynamically, but the preferred settings will not. Available in Mac OS X v10.4 and later.

QTMoviePreviewModeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The preview mode setting; the value for this key is a boolean. This value is true if the movie is in preview mode.

This attribute can be read and written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.

Available in Mac OS X v10.4 and later.

QTMoviePreviewRangeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The preview range of a `QTKitMovieMBS` object; the value for this key is a `QTTimeRangeMBS` object. This attribute can be read and written. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true. Available in Mac OS X v10.4 and later.

QTMovieRateAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The movie rate; the value for this key a float. This attribute can be read and written. This attribute can be read and written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true. Available in Mac OS X v10.4 and later.

QTMovieRateChangesPreservePitchAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

When the playback rate is not unity, audio must be resampled in order to play at the new rate. The default resampling affects the pitch of the audio (for example, playing at 2x speed raises the pitch by an octave, 1/2x lowers an octave). If this property is set on the movie, an alternative algorithm is used, which alters the speed without changing the pitch. Since this is more computationally expensive, this property may be silently ignored on some slow CPUs.

This attribute can be read but not written; it must be among the initialization attributes to have any effect. This attribute can be read but not written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.

Available in Mac OS X v10.4 and later.

QTMovieRateDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with `NSNotificationObserverMBS` class.

Notes:

Used as a key in the `userInfo` dictionary passed to the `QTMovieRateDidChangeNotification` notification to indicate the new playback rate. The associated value is a float.
Available in Mac OS X v10.4 and later.

QTMovieRateDidChangeNotificationParameter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Used as a key in the `userInfo` dictionary passed to the `QTMovieRateDidChangeNotification` notification to indicate the new playback rate.

Notes:

The associated value is a float.
Available in Mac OS X v10.4 and later.

QTMovieResolveDataRefsAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

QTMovieSelectionAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The selection range of a `QTKitMovieMBS` object; the value for this key is a `QTTimeRangeMBS` object. This attribute can be read and written. This attribute cannot be read or written when the movie has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.
Available in Mac OS X v10.4 and later.

QTMovieSelectionDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with `NSNotificationObserverMBS` class.

Notes:

Sent when the selection of a movie has changed.
This notification contains no userInfo dictionary.

Available in Mac OS X v10.4 and later.

QTMovieSizeDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Sent when the size of a movie has changed.
This notification contains no userInfo dictionary.

QuickTime 7.0 and later, but deprecated in QuickTime 7.6.3 and later.

QTMovieStatusCodeNotificationParameter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the parameter keys for QTMovieStatusStringPostedNotification.

Notes:

Used as a key in the userInfo dictionary passed to the QTMovieStatusStringPostedNotification notification to indicate a status code (or error code). The associated value is an integer.
Available in Mac OS X v10.4 and later.

QTMovieStatusFlagsNotificationParameter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the parameter keys for QTMovieStatusStringPostedNotification.

Notes:

Used as a key in the userInfo dictionary passed to the QTMovieStatusStringPostedNotification notification to indicate a status code (or error code). The associated value is an integer.
Available in Mac OS X v10.4 and later.

QTMovieStatusStringNotificationParameter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the parameter keys for QTMovieStatusStringPostedNotification.

Notes:

Used as a key in the userInfo dictionary passed to the QTMovieStatusStringPostedNotification notification to indicate a status string.

Available in Mac OS X v10.4 and later.

QTMovieStatusStringPostedNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Status messages can be sent by QuickTimes streaming components or by any code that wants to display a message in the movie controller bar status area.

The userInfo dictionary contains a single entry whose value is of type NSString, which is the status message.

The following are keys (notification parameters) for userInfo items for the QTMovieStatusStringPostedNotification notification QTMovieStatusCodeNotificationParameter and QTMovieStatusStringNotificationParameter.

A status string notification can indicate an error (in which case QTMovieStatusCodeNotificationParameter will have a value), or it can contain a string (in which case QTMovieStatusStringNotificationParameter will have a value). For more information, see mcActionShowStatusString.

Availability

Available in Mac OS X v10.4 and later.

QTMovieTargetIDNotificationParameter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Used as a key in the dictionary passed to the externalMovie delegate method to indicate that the delegate should return a QTKitMovieMBS object that has the movie ID specified by the keys value.

Notes: Available in Mac OS X v10.4 and later.

QTMovieTargetNameNotificationParameter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Used as a key in the dictionary passed to the externalMovie delegate method to indicate that the delegate should return a QTKitMovieMBS object that has the movie name specified by the keys value.

Notes: Available in Mac OS X v10.4 and later.

QTMovieTimeDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Sent when the time in a movie has changed.

The QTMovieTimeDidChangeNotification is fired whenever the movie time changes to a time other than what it would be during normal playback. So, for example, this notification is not fired every frame.

Available in Mac OS X v10.4 and later.

QTMovieTimeScaleAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The time scale of a QTKitMovieMBS object; the value for this key is of type NSNumber, interpreted as a long. This attribute can be read and (in Mac OS X 10.5 and later) written; in earlier versions of Mac OS X, this attribute is readable only. In general, you should set this attribute only on newly-created movies or on movies that have not been edited. Also, you should only increase the time scale value, and you should try to use integer multiples of the existing time scale.

This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieUneditableException as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** An exception name for use with NSExcptionMBS class.

Notes:

Raised when the developer tries to call a method that requires editing or modifying the movie on an uneditable movie.

Available in Mac OS X v10.4 and later.

Use with NSExcptionMBS class.

QTMovieURLAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The URL of a QTKitMovieMBS object; the value for this key is an URL string.

This attribute can be read but not written. This attribute can be read but not written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieVolumeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute dictionary keys.

Notes:

The movie volume; the value for this key a float.

This attribute can be read and written. This attribute can be read and written when the movie has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMovieVolumeDidChangeNotification as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with NSNotificationObserverMBS class.

Notes:

Sent when the volume of a movie has changed.
Available in Mac OS X v10.4 and later.

rate as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current rate of a `QTKitMovieMBS` object.

Notes: (Read and Write computed property)

RateChangesPreservePitch as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** When the playback rate is not unity, audio must be resampled in order to play at the new rate.

Notes:

The default resampling affects the pitch of the audio (for example, playing at 2x speed raises the pitch by an octave, 1/2x lowers an octave). If this property is set on the `Movie`, an alternative algorithm is used, which alters the speed without changing the pitch. As this is more computationally expensive, this property may be silently ignored on some slow CPUs.

(Read and Write computed property)

removeApertureModeDimensions

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Removes aperture mode dimension information from a movie's tracks.

Notes: This method does not attempt to modify sample descriptions, so it may not completely reverse the effects of `generateApertureModeDimensions`. It sets the `HasApertureModeDimensions` property to false.

removeChapters as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Removes any existing chapters from the receiver.

Notes:

Returns true if either the receiver had no chapters or the chapters were successfully removed from the receiver. Returns false if the chapters could not for some reason be removed from the receiver. The receiving QTKitMovieMBS object must be editable or an exception will be raised.

Mac OS X v10.5 and later.

removeTrack(track as QTKitTrackMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Removes the track from the movie.

Notes: Requires QuickTime 7.2.

replaceSelectionWithSelectionFromMovie(mov as QTKitMovieMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Replaces the current selection in a QTKitMovieMBS with the current selection in movie.

Notes: If the movie is not editable, this method raises an exception.

scaleSegment(range as QTKitTimeRangeMBS, time as QTKitTimeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Scales the QTKit-MovieMBS segment delimited by the segment segment so that it will have the new duration newDuration.

Notes: If the movie is not editable, this method raises an exception.

Selection as QTKitTimeRangeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The selection range of a QTKitMovieMBS object.

Notes: (Read and Write computed property)

selectionDuration as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the duration of the movies current selection as a QTTime structure.

selectionEnd as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the end point of the movies current selection as a QTTime structure.

selectionStart as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the start time of the movies current selection as a QTTime structure.

SetCurrentSize(width as double, height as double)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the current size of the movie.

setIdling(state as boolean)

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the idling state of a QTKitMovieMBS object.

Notes:

Requires QuickTime 7.2.

Movies attached to background threads should not be idled; if they are idled, unexpected behavior can result. This method cannot be called when the movie has been initialized with QT-MovieOpenForPlaybackAttribute set to true.

state: A boolean value that indicates whether to idle the movie (true) or not (false).

SetNaturalSize(width as double, height as double)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the natural size of a `QTKitMovieMBS` object.

setSelection(r as `QTKitTimeRangeMBS`)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the movies selection to r.

startTimeOfChapter(chapterIndex as integer) as `QTKitTimeMBS`

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a `QTTime` structure that is the start time of the chapter having the specified 0-based index in the list of chapters.
Notes: Mac OS X v10.5 and later.

stepBackward

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the movie backward a single frame.
Notes: You can check if `currenttime` changes to see if method is successful.

stepForward

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the movie forward a single frame.
Notes: You can check if `currenttime` changes to see if method is successful.

stop

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Stops the movie playing.

time as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The movies current time setting to time.

Notes: (Read and Write computed property)

TimeScale as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The movie time scale.

Notes:

In Mac OS X 10.5 and later, this attribute is gettable and settable. In general, you should set this attribute only on newly-created movies or on movies that have not been edited. Also, you should only increase the time scale value, and you should try to use integer multiples of the existing time scale. In earlier versions of Mac OS X, this attribute is gettable only.

(Read and Write computed property)

tracks as QTKitTrackMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of QTKitTrackMBS objects associated with the receiver.

Example:

```
dim file as FolderItem = SpecialFolder.Desktop.Child("test.mov")
dim mov as new QTKitMovieMBS(file)
dim tracks() as QTKitTrackMBS = mov.tracks
```

```
MsgBox str(1+UBound(tracks))+ " tracks in movie."
```

Notes: Available in Mac OS X v10.3 and later.

tracksOfMediaType(Type as string) as QTKitTrackMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of tracks with the specified media type.

Notes:

The type parameter should be one of the media types defined by constants in QTKitMediaMBS beginning with "QTMediaType", for instance, QTMediaTypeVideo.

Available in Mac OS X v10.3 and later.

updateMovieFile as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Updates the movie file of a QTKitMovieMBS.

Example:

```
// where to write?
dim outputfile as FolderItem = SpecialFolder.Desktop.Child("test.mov")

// open movie file
dim q as new QTKitMovieMBS(outputfile)

// start editing
q.Editable = true

// create duration for the picture
dim duration as QTKitTimeMBS = new QTKitTimeMBS(5*600, 600) // 5 seconds

// create a picture
dim w as integer = q.NaturalSizeWidth
dim h as integer = q.NaturalSizeHeight
dim p as new Picture(w, h, 32)
dim g as Graphics = p.Graphics

g.ForeColor = & cFFFFFF00
g.FillRect 0,0,w,h

// add picture
dim n as new NSImageMBS(p)
q.addImage n, duration, "tiff", QTKitModuleMBS.codecMaxQuality
```

```

// save file
if q.updateMovieFile then
q = nil
// and launch quicktime player
outputfile.Launch

else
MsgBox "Failed"
end if

```

Notes: Returns true if the update succeeds and false otherwise.

URL as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The URL of a QTKitMovieMBS object.

Notes: (Read and Write computed property)

volume as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The movies volume as a scalar value of type float.

Notes:

The valid range is 0.0 to 1.0.

(Read and Write computed property)

writeToFile(file as folderitem, byref error as NSErrorMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the movie file was successfully created and false otherwise.

Example:

```

dim f as FolderItem=SpecialFolder.Desktop.Child("test.mov")
dim q as new QTKitMovieMBS(f)
dim e as NSErrorMBS

```

```
f=SpecialFolder.Desktop.Child("test2.mov")

if q.writeToFile(f,e) then // save reference movie
  MsgBox "ok"
else
  MsgBox "Fail"
end if

if e<>Nil then
  MsgBox e.localizedDescription
end if
```

Notes: This method returns true if the movie file was successfully created and false otherwise. False will also be returned if the load state of the target is less than `kLoadStateComplete`, in which case no attempt is made to write the `QTKitMovieMBS` into a file.

2.1.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the `QTKitMovieMBS` object.

Notes: (Read and Write property)

2.1.3 Constants

`QTIncludeAggressiveTypes = 4`

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the file type option flags.

Notes:

This value adds to the array all file types for files that can be opened using a movie importer but that are not commonly used in connection with movies (for instance, text or HTML files).

Available in Mac OS X v10.3 and later.

QTIncludeAllTypes = & hfff

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the file type option flags.

Notes:

This value adds to the array all file types that QuickTime can open on the current system, using any available movie or graphics importer.

Available in Mac OS X v10.3 and later.

QTIncludeCommonTypes = 0

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the file type option flags.

Notes:

This value adds to the array all common file types that QuickTime can open in place on the current system. Available in Mac OS X v10.3 and later.

QTIncludeDynamicTypes = 8

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the file type option flags.

Notes: New in QuickTime 7.2

QTIncludeStillImageTypes = 1

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the file type option flags.

Notes:

This value adds to the array all file types for still images that can be opened using a graphics importer. Available in Mac OS X v10.3 and later.

QTIncludeTranslatableTypes = 2

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the file type option flags.

Notes:

This value adds to the array all file types for files that can be opened using a movie importer but for which a new file must be created.

Available in Mac OS X v10.3 and later.

QTMovieLoadStateComplete = 100000

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the load state constants.

Notes: the movie has loaded completely

QTMovieLoadStateError = -1

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the load state constants.

Notes: an error occurred while loading the movie

QTMovieLoadStateLoaded = 2000

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the load state constants.

Notes: the movie atom has loaded; it's safe to query movie properties

QTMovieLoadStateLoading = 1000

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the load state constants.

Notes: the movie is loading

QTMovieLoadStatePlayable = 10000

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the load state constants.

Notes: the movie has loaded enough media data to begin playing

QTMovieLoadStatePlaythroughOK = 20000

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the load state constants.

Notes: the movie has loaded enough media data to play through to the end

2.2 module QTKitModuleMBS

module QTKitModuleMBS

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A central module with global QTKit functions and constants.

2.2.1 Methods

OSTypeForString(type as string) as integer

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Converts a string to an OSType value.

Example:

```
dim o as integer = QTKitModuleMBS.OSTypeForString("appl")
```

```
MsgBox str(o) // shows 1634758764 on Little Endian
```

```
dim s as string = QTKitModuleMBS.StringForOSType(o)
```

```
MsgBox s // shows "appl"
```

Notes: To avoid trouble with little vs. big endian you can store your OSType constants as string and convert them using this function.

QLErrorCaptureInputKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the userinfo dictionary of a NSErrorMBS object.

Notes:

Use this key to retrieve the QLErrorCaptureInput object for which the error occurred.
Available in Mac OS X v10.5 and later.

QLErrorCaptureOutputKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the userinfo dictionary of a NSErrorMBS object.

Notes:

Use this key to retrieve the QLErrorCaptureOutput object for which the error occurred.
Available in Mac OS X v10.5 and later.

QLErrorDeviceKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the userinfo dictionary of a NSErrorMBS object.

Notes:

Use this key to retrieve the QLErrorDevice object for which the error occurred.
Available in Mac OS X v10.5 and later.

QTErrorExcludingDeviceKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the userinfo dictionary of a NSErrorMBS object.

Notes:

Use this key to retrieve the QTCaptureDevice object for the device whose presence is excluding the device for which the error occurred.

Available in Mac OS X v10.5 and later.

QTErrorFileSizeKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the userinfo dictionary of a NSErrorMBS object.

Notes:

Use this key to interpret the file size in bytes as an Number.

Mac OS X v10.6; QuickTime 7.6.1.

QTErrorRecordingSuccessfullyFinishedKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the userinfo dictionary of a NSErrorMBS object.

Notes:

Use this key to determine whether the products of a recording were successfully finished after recording stopped due to an error. The value is an Number interpreted as a boolean.

Available in Mac OS X v10.5 and later.

QTErrorRecordingSuccessfullyFinishedKey as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the userinfo dictionary of a NSErrorMBS object.

Notes:

Use this key to determine whether the products of a recording were successfully finished after recording stopped due to an error. The value is an Number interpreted as a boolean.

Available in Quicktime 7.7 or newer.

Same as QTErrorRecordingSuccessfullyFinishedKey, but with one more s in the name.

QTErrorTimeKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the userinfo dictionary of a NSErrorMBS object.

Notes:

An NSValue interpreted as QTTime.
Mac OS X v10.6; QuickTime 7.6.1.

QTKitErrorDomain as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The QTKit error domain identifier.

Notes: Available in Mac OS X v10.5 and later.

StringForOSType(type as integer) as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Converts an OSType value back to a string.

Example:

```
dim o as integer = QTKitModuleMBS.OSTypeForString("appl")
```

```
MsgBox str(o) // shows 1634758764 on Little Endian
```

```
dim s as string = QTKitModuleMBS.StringForOSType(o)
```

```
MsgBox s // shows "appl"
```

2.2.2 Constants

codecHighQuality = & h00000300

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify high codec quality.

codecLosslessQuality = & h00000400

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify lossless codec quality.

codecLowQuality = & h00000100

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify low codec quality.

codecMaxQuality = & h000003FF

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify maximum codec quality.

codecMinQuality = & h00000000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify minimum codec quality.

codecNormalQuality = & h00000200

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify normal codec quality.

graphicsModeComposition = 259

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify the graphics mode for drawing a picture/video.

graphicsModePerComponentAlpha = 272

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify the graphics mode for drawing a picture/video.

graphicsModePreBlackAlpha = 258

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify the graphics mode for drawing a picture/video.

graphicsModePreMulColorAlpha = 261

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify the graphics mode for drawing a picture/video.

graphicsModePreWhiteAlpha = 257

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify the graphics mode for drawing a picture/video.

graphicsModeStraightAlpha = 256

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify the graphics mode for drawing a picture/video.

graphicsModeStraightAlphaBlend = 260

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants to specify the graphics mode for drawing a picture/video.

kQTFileType3DMF = "3DMF"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileType3GP2 = "3gp2"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileType3GPP = "3gpp"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeAIFC = "AIFC"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeAIFF = "AIFF"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeAMC = "amc "

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeAMR = "amr "

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeAudioCDTrack = "trak"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeAVI = "VfW "

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeBMP = "BMPf"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeDVC = "dvc!"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeFlash = "SWFL"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeFlashPix = "FPix"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeFLC = "FLC "

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeGIF = "GIF"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeJFIF = "JPEG"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeJPEG = "JPEG"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeJPEG2000 = "jp2 "

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeMacPaint = "PNTG"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeMIDI = "Midi"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeMovie = "MooV"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeMP4 = "mpg4"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeMuLaw = "ULAW"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypePDF = "PDF"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypePhotoShop = "8BPS"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypePICS = "PICS"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypePicture = "PICT"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypePNG = "PNGf"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeQuickDrawGXPicture = "qdgx"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeQuickTimeImage = "qtif"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeSDV = "sdv "

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeSGIImage = ".SGI"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeSoundDesignerII = "Sd2f"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeSystemSevenSound = "sfl"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeTargaImage = "TPIC"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeText = "TEXT"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeTIFF = "TIFF"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

kQTFileTypeWave = "WAVE"

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a QuickTime file type.

QTErrorDeviceAlreadyUsedbyAnotherSession = 1101

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

The device could not be added to the session because it experiences a runtime error trying to use a device already being used by another session.

Available in Mac OS X v10.5 and later.

QTErrorDeviceExcludedByAnotherDevice = 1302

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

The device is excluded by another device.

Check `QLErrorExcludingDeviceKey` to determine the device that needs to be closed to open the device that failed.

Available in Mac OS X v10.5 and later.

QLErrorDeviceInUseByAnotherApplication = 1301

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within `QTKitErrorDomain`.

Notes:

The device is in use by another application.

Available in Mac OS X v10.5 and later.

QLErrorDeviceNotConnected = 1300

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within `QTKitErrorDomain`.

Notes:

The device is not connected to the computer.

Available in Mac OS X v10.5 and later.

QLErrorDeviceWasDisconnected = 1203

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within `QTKitErrorDomain`.

Notes:

The recording has been automatically stopped because an input device was disconnected.

Check `QLErrorCaptureSuccessfullyFinishedKey` to determine if the capture products were successfully completed when recording was stopped.

Available in Mac OS X v10.5 and later.

QTErrordiskFull = 1202

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

The recording has been automatically stopped because the disk being used for recorded products is full. Check `QTErrordiskFull` to determine if the recorded products were successfully completed when recording was stopped. This error will occur while the destination disk still has sufficient space to avoid system wide warnings about low disk space.

Available in Mac OS X v10.5 and later.

QTErrordiskFull = 1503

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes: Available on Mac OS X 10.7.

QTErrordiskFull = 1504

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes: Available on Mac OS X 10.7.

QTErrordiskFull = 1506

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes: Available on Mac OS X 10.7.

QTErrordiskFull = 1505

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes: Available on Mac OS X 10.7.

QLErrorIncompatibleInput = 1002

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

The input could not be added to the specified session because it is incompatible with existing inputs and outputs in the session.

Check QLErrorCaptureInputKey for the input experiencing the error.

Available in Mac OS X v10.5 and later.

QLErrorIncompatibleOutput = 1003

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

The output could not be added to the specified session because it is incompatible with existing inputs and outputs in the session.

Check QLErrorCaptureOutputKey for the output experiencing the error.

Available in Mac OS X v10.5 and later.

QLErrorInvalidDestinationFileTypeForExport = 1501

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes: Available on Mac OS X 10.7.

QLErrorInvalidInputsOrOutputs = 1100

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

QLErrorInvalidSourceFileTypeForExport = 1502

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes: Available on Mac OS X 10.7.

QLErrorMaximumDurationReached = 1205

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

Returned when recording has reached the maximum duration specified by the application.
Available in Mac OS X v10.5 and later.

QLErrorMaximumFileSizeReached = 1206

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

Returned when recording has reached the maximum file size specified by the application.
Available in Mac OS X v10.5 and later.

QLErrorMaximumNumberOfSamplesForFileFormatReached = 1208

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

Indicates the maximum number of samples reached for the file format.
Mac OS X v10.6; QuickTime 7.6.3.

QTErrormediaChanged = 1204

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

The recording has been automatically stopped because the format of the input media changed or the media samples were invalid.

Check QTErrormediaCaptureSuccessfullyFinishedKey to determine if the capture products were successfully completed when recording was stopped.

Available in Mac OS X v10.5 and later.

QTErrormediaDiscontinuity = 1207

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

Returned when there is a discontinuity in captured media, usually because of performance problems on the user's system or because of a change in a device's state. This error generally indicates that media samples have been dropped in order to maintain real time capture.

Available in Mac OS X v10.5 and later.

QTErrornodataCaptured = 1200

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

Returned when no data was successfully captured during a recording or other capture operation.

Available in Mac OS X v10.5 and later.

QTErrorsessionConfigurationChanged = 1201

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within QTKitErrorDomain.

Notes:

The recording has been automatically stopped because an input or output has been added or removed, or the channels of an input or output have changed.

Check `QTErrorCaptureSuccessfullyFinishedKey` to determine if the recorded products were successfully completed when recording was stopped.

Available in Mac OS X v10.5 and later.

QTErrorUnknown = -1

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the error codes returned within `QTKitErrorDomain`.

Notes:

Indicates an unexpected or unknown error.

Check `NSUnderlyingErrorKey` for an `NSError` representing the internal cause of the error.

Available in Mac OS X v10.5 and later.

2.3 class QTKitSampleBufferMBS

class QTKitSampleBufferMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class provides format information, timing information, and metadata on media sample buffers.

Notes: `QTSampleBuffer` objects contain data from media samples as well as metadata about those samples, including format information, timing information, and other attributes.

2.3.1 Methods

attributeForKey(key as string) as variant

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a sample buffer attribute for the given key.

Notes:

key: The key of the returned attribute.

An object for the given attribute key, or nil if the sample buffer does not have the given attribute.

Mac OS X v10.5 and later.

bytesForAllSamples as MemoryBlock

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a pointer to the bytes of media data contained in the sample buffer.

Notes:

This method returns a pointer to the data for the media samples contained within the sample buffer. Clients reading bytes from this pointer should check the total length of the buffer using `lengthForAllSamples`. Applications can interpret the media data returned by this method using the information from the sample buffers `formatDescription`. This method will throw an `NSInternalInconsistencyException` if called after `decrementSampleUseCount` has been used to invalidate the media data contained in the sample buffer. Mac OS X v10.5 and later.

decodeTime as QTKitTimeMBS

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the decode time of the buffer.

Notes:

A `QTTime` representing the decode time of the buffer. For B-frame video media, the decode time may be different from the `presentationTime`.

Mac OS X v10.5 and later.

decrementSampleUseCount

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Decrements the use count of the sample data owned by the receiver, allowing the sample data to be invalidated after a matching call to `incrementSampleUseCount`.

Notes:

This method allows clients to control when the potentially large memory buffers owned by the receiver are deallocated. A newly allocated `QTSampleBuffer` has a sample use count of 1. When the sample use count

drops to 0, the memory allocated for the samples will be freed and the `bytesForAllSamples`, `lengthForAllSamples`, and `audioBufferListWithOptions` methods will each throw an `NSInternalInconsistencyException` when called.

This method is analogous to the `NSObject` `release` method in that it allows clients to relinquish ownership over data contained within the sample buffer. In particular, clients that have called `incrementSampleUseCount` because they were interested in the sample data of `QTSampleBuffer` objects returned by other APIs in QTKit should call this method when they no longer need that data. It is particularly important that clients using garbage collection ensure that the sample use count is 0 when they no longer require the sample data owned by a `QTSampleBuffer`, so that memory can be deallocated promptly rather than when the object is finalized.

Mac OS X v10.5 and later.

duration as QTKitTimeMBS

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the duration of the buffer.

Notes:

Returns a `QTTime` representing the duration of the buffer.
Mac OS X v10.5 and later.

formatDescription as QTKitFormatDescriptionMBS

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the format description of the buffer.

Notes:

A `QTFormatDescription` object describing the media format of the buffer.

Mac OS X v10.5 and later.

incrementSampleUseCount

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Increments the use count of the sample data owned by the receiver, preventing the sample data from being invalidated until a matching call to `decrementSampleUseCount`.

Notes:

This method allows clients to control when the potentially large memory buffers owned by the receiver are deallocated. A newly allocated `QTSampleBuffer` has a sample use count of 1. When the sample use count drops to 0, the memory allocated for the samples will be freed and the `bytesForAllSamples`, `lengthForAllSamples`, and `audioBufferListWithOptions` methods will each throw an `NSInternalInconsistencyException` when called.

This method is analogous to the `NSObject` `retain` method in that it allows clients to declare ownership over data contained within the sample buffer. In particular, clients interested in the sample data of `QTSampleBuffer` objects returned by other APIs in `QTKit` should call this method to ensure that they have access to the sample data, and later call `decrementSampleUseCount` when they no longer need that data. It is particularly important that clients using garbage collection ensure that the sample use count is 0 when they no longer require the sample data owned by a `QTSampleBuffer`, so that memory can be deallocated promptly rather than when the object is finalized.

Mac OS X v10.5 and later.

lengthForAllSamples as integer

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the length of the buffer returned by `bytesForAllSamples`.

Notes:

Clients reading bytes from the pointer returned by `bytesForAllSamples` should use this method to check the total length of the buffer. This method will throw an `NSInternalInconsistencyException` if called after `decrementSampleUseCount` has been used to invalidate the media data contained in the sample buffer.

Mac OS X v10.5 and later.

numberOfSamples as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the number of media samples contained in the buffer.

Notes: In general, video buffers will always contain one sample (a single frame), while audio buffers may contain multiple samples. Applications that need to interpret variable bit-rate audio can get the individual sample lengths with the `getAudioStreamPacketDescriptionsInRange` method.

presentationTime as QTKitTimeMBS

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the presentation time of the buffer.

Notes:

A `QTime` representing the presentation time of the buffer. For B-frame video media, the presentation time may be different from the `decodeTime`.

Mac OS X v10.5 and later.

QTSampleBufferDataRecordedAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Returns the date on which the media in the buffer was originally recorded.

The value is an `NSDate`. This string value can be used in key paths for key-value coding, key-value observing, and bindings.

Available in Mac OS X v10.5 and later.

QTSampleBufferExplicitSceneChange as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Indicates that a scene change was explicitly marked in the sample buffers metadata.

This constant is returned by `QTSampleBufferSceneChangeTypeAttribute` specifying what kind of scene change, if any, is marked by a sample buffer.

Available in Mac OS X v10.5 and later.

QTSampleBufferHostTimeAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Returns the buffer's host time, if the buffer is from a real time source.

The value returned by this attribute can be compared with the return value of `CVGetCurrentHostTime()` or `AudioGetCurrentHostTime()` to determine whether or not it is too late for the buffer to be processed in real time. Value is an `NSNumber` interpreted as a `UInt64`. This string value can be used in key paths for key-value coding, key-value observing, and bindings.

Available in Mac OS X v10.5 and later.

QTSampleBufferSceneChangeTypeAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

If the buffer marks a scene change in the input content, returns a constant.

The returned constant specifies the type of scene change. This string value can be used in key paths for key-value coding, key-value observing, and bindings.

Available in Mac OS X v10.5 and later.

QTSampleBufferSMPTETimeAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Returns the SMPTE timecode of the sample buffer, if it has one.

The value is an `NSValue` interpreted as a `SMPTETime` (defined in `CoreAudio/CoreAudioTypes.h`). This string value can be used in key paths for key-value coding, key-value observing, and bindings.

Available in Mac OS X v10.5 and later.

QTSampleBufferTimeStampDiscontinuitySceneChange as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Indicates that the scene changed due to a discontinuity in time stamps between the current sample buffer and the previous sample buffer.

This constant is returned by `QTSampleBufferSceneChangeTypeAttribute` specifying what kind of scene change, if any, is marked by a sample buffer.

Available in Mac OS X v10.5 and later.

sampleBufferAttributes as dictionary

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a dictionary of the sample buffer's current attributes.

Notes:

Returns a dictionary of attributes attached to the sample buffer. Attribute keys are described in the Constants section that discusses the attributes.

Applications can use this method to determine what attributes a specific sample buffer supports. Mac OS X v10.5 and later.

sampleUseCount as integer

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the use count of the sample data owned by the receiver.

Notes:

This method returns the use count of the data owned by the receiver, as determined by the number of invocations of `incrementSampleUseCount` and `decrementSampleUseCount`. If the value returned by this method is 0, then the data owned by the receiver has been invalidated and the `bytesForAllSamples`, `lengthForAllSamples`, and `audioBufferListWithOptions` methods will throw an `NSInternalInconsistencyException`.

Clients should rarely need to call this method. It is generally only useful for debugging purposes.

Mac OS X v10.5 and later.

2.3.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the QTSampleBuffer object.

Notes: (Read and Write property)

2.3.3 Constants

QTSampleBufferAudioBufferListOptionAssure16ByteAlignment = 1

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** A flag for the audioBufferListWithOptions method.

2.4 class QTKitTimeMBS

class QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The class to represent a time value in QTKit.

Notes: This can be a duration (of a movie) or a time offset (relative to the movie start).

2.4.1 Methods

Compare(other as QTKitTimeMBS) as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Compares two time values.

Notes: Returns 0 if equal, -1 if self is smaller, 1 if other is smaller and -2 if the function is not available.

Constructor(s as string)

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new time object from a string representation.

See also:

- 2.4.1 Constructor(time as QTKitTimeMBS, timeScale as integer) 132
- 2.4.1 Constructor(timeValue as Int64, timeScale as integer) 132

Constructor(time as QTKitTimeMBS, timeScale as integer)

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QTKit-TimeMBS OBJECT whose time is set to the time of a QTTime object interpreted using the time scale scale.

See also:

- 2.4.1 Constructor(s as string) 132
- 2.4.1 Constructor(timeValue as Int64, timeScale as integer) 132

Constructor(timeValue as Int64, timeScale as integer)

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new time object based on the given values.

See also:

- 2.4.1 Constructor(s as string) 132
- 2.4.1 Constructor(time as QTKitTimeMBS, timeScale as integer) 132

Decrement(decrement as QTKitTimeMBS) as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Subtracts the given time and returns a new time object with the result.

Increment(increment as QTKitTimeMBS) as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds the given time and returns a new time object with the result.

IndefiniteTime as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new Time object for an indefinite time value.

Notes: Returns nil on any error.

IsIndefinite as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether this number is an indefinite number.

Seconds as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns this time as seconds.

Notes: The result is basicly timevalue/timescale.

String as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a human readable version of the time object.

Example:

```
dim f as FolderItem=SpecialFolder.Desktop.Child("test.mov")
dim q as new QTKitMovieMBS(f)
```

```
MsgBox q.duration.String
```

Notes:

Format is like this: "0:00:02:37.26575/44100"

days:hours:minutes:seconds:frames/framespersecond

Frames is not the video frame, but the time unit used by QuickTime.

Time(s as string) as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new time object from a string representation.

Notes: Returns nil on any error.

See also:

- 2.4.1 Time(time as QTKitTimeMBS, timeScale as integer) as QTKitTimeMBS 134
- 2.4.1 Time(timeValue as Int64, timeScale as integer) as QTKitTimeMBS 135

Time(time as QTKitTimeMBS, timeScale as integer) as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This function returns a QTTime object whose time is set to the time of a QTTime object interpreted using the time scale scale.

Notes: Returns nil on any error.

See also:

- 2.4.1 Time(s as string) as QTKitTimeMBS 134
- 2.4.1 Time(timeValue as Int64, timeScale as integer) as QTKitTimeMBS 135

Time(timeValue as Int64, timeScale as integer) as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new time object based on the given values.

Notes: Returns nil on any error.

See also:

- 2.4.1 Time(s as string) as QTKitTimeMBS 134
- 2.4.1 Time(time as QTKitTimeMBS, timeScale as integer) as QTKitTimeMBS 134

TimeInRange(range as QTKitTimeRangeMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the specified time time lies in the time range range.

ZeroTime as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the zero time value.

Notes: Returns nil on any error.

2.4.2 Properties**Flags as Integer**

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The flags for this time.

Notes:

Currently only the kQTTimeIsIndefinite flag is used.
(Read and Write property)

TimeScale as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The time scale for this time value.

Notes:

In QuickTime a second is divided into time units called frames. The timescale is the number of frames per second in a movie. All items are positioned using this frames, so the higher the time scale is, the higher the time resolution is.

(Read and Write property)

TimeValue as Int64

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The time value.

Notes: (Read and Write property)

2.4.3 Constants**kQTTimeIsIndefinite=1**

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for the flags property.

2.5 class QTKitTimeRangeMBS**class QTKitTimeRangeMBS**

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The class in QTKit to represent a time range.

2.5.1 Methods

EndTime as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The end time of this time range.

Notes: This value is calculated for you.

Equal(timerange as QTKitTimeRangeMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if two time ranges are equal.

Intersection(r1 as QTKitTimeRangeMBS, r2 as QTKitTimeRangeMBS) as QTKitTimeRangeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Calculates the intersection of two time ranges and returns that in a new timerange object.

String as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the string representation of the time range.

Example:

```
dim f as FolderItem=SpecialFolder.Desktop.Child("test.mov")
dim q as new QTKitMovieMBS(f)
dim r as new QTKitTimeRangeMBS

r=QTKitTimeRangeMBS.TimeRange(QTKitTimeMBS.ZeroTime, q.duration)

dim c as new Clipboard
c.SetText r.string // shows "0:00:00:00.00/10000000:00:02:37.602608/1000000"
```

TimeRange(time as QTKitTimeMBS, duration as QTKitTimeMBS) as QTKitTimeRangeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new time range based on a time and a duration value.

Example:

```
dim f as FolderItem=SpecialFolder.Desktop.Child("test.mov")
dim q as new QTKitMovieMBS(f)
dim r as new QTKitTimeRangeMBS

r=QTKitTimeRangeMBS.TimeRange(QTKitTimeMBS.ZeroTime, q.duration)

dim c as new Clipboard
c.SetText r.string // "0:00:00:00.00/10000000:00:02:37.602608/1000000"
```

Notes: Returns nil on any error.

TimeRangeFromString(s as string) as QTKitTimeRangeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a timerange object based on a time range string representation.

Notes: Returns nil on any error.

Union(r1 as QTKitTimeRangeMBS, r2 as QTKitTimeRangeMBS) as QTKitTimeRangeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Calculates the union of two time ranges and returns that in a new timerange object.

2.5.2 Properties

Duration as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The duration time value.

Notes: (Read and Write property)

Time as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The start time of this time range.

Notes: (Read and Write property)

2.6 class QTKitTrackMBS

class QTKitTrackMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The QTKitTrackMBS class represents a QuickTime track (of type Track).

Example:

```
dim f as FolderItem=SpecialFolder.Desktop.Child("test.mov")
dim q as new QTKitMovieMBS(f)
```

```
dim tracks() as QTKitTrackMBS = q.tracks
for each t as QTKitTrackMBS in tracks
MsgBox str(t.mediaType)
next
```

Notes: QTKitTrackMBS objects are associated with QTKitMovieMBS objects and support methods for getting and setting the track properties. If necessary, you can retrieve the track identifier associated with a QTKitTrackMBS object by calling its TrackHandle method. Note that a movie can have multiple tracks. A track has a single media.

2.6.1 Methods

addImage(image as NSImageMBS, duration as QTKitTimeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds an image for the specified duration to the track.

See also:

- 2.6.1 addImage(image as NSImageMBS, duration as QTKitTimeMBS, codec as string, codecQuality as integer) 140

addImage(image as NSImageMBS, duration as QTKitTimeMBS, codec as string, codecQuality as integer)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds an image for the specified duration to the track.

Notes: You can specify a codec (See QT Component List example) and quality from 0 to 1024.

See also:

- 2.6.1 addImage(image as NSImageMBS, duration as QTKitTimeMBS) 140

apertureModeDimensionsForMode(mode as string, byref width as double, byref height as double) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an NSSize value that indicates the dimensions of the target track for the specified movie aperture mode.

Notes:

For instance, passing a mode of QTMovieApertureModeClean would cause apertureModeDimensionsForMode to return the track dimensions to use in clean aperture mode.

Available in Mac OS X v10.3 and later.

availableMetadataFormats as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array containing strings representing the metadata formats available to the receiver.

Example:

```

dim file as FolderItem = SpecialFolder.Desktop.Child("test.mov")
dim m as new QTKitMovieMBS(file)
dim tracks() as QTKitTrackMBS = m.tracks
dim t as QTKitTrackMBS = tracks(0)
MsgBox join(t.availableMetadataFormats,", ")

```

Notes: Available on Mac OS X 10.7.

BoundsHeight as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The height of the bounding rectangle of this track.

Example:

```

dim f as FolderItem

f=SpecialFolder.Desktop.Child("test.mov")

dim t as QTKitTrackMBS

// Load movie
dim m as new QTKitMovieMBS(f)

// get tracks
dim tracks() as QTKitTrackMBS = m.tracks

// find first track
t = tracks(0)

// show media type
MsgBox t.mediaType

// show bounds
MsgBox "Width: " +str(t.BoundsWidth)+EndOfLine+"Height: " +str(t.BoundsHeight)

Exception n as NSEExceptionMBS
MsgBox n.message

```

BoundsLeft as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The left position of the bounding rectangle of this track.

BoundsTop as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The top position of the bounding rectangle of this track.

BoundsWidth as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The width of the bounding rectangle of this track.

Example:

```
dim f as FolderItem
```

```
f=SpecialFolder.Desktop.Child("test")
```

```
dim t as QTKitTrackMBS
```

```
dim m as new QTKitMovieMBS(f)
```

```
dim tracks() as QTKitTrackMBS = m.tracks
```

```
t=tracks(0)
```

```
MsgBox t.mediaType // shows "vide"
```

```
MsgBox "Width: "+str(t.BoundsWidth)+EndOfLine+"Height: "+str(t.BoundsHeight)
```

```
// shows "Width: 320"+endofline+"Height: 200"
```

```
Exception n as NSEExceptionMBS
```

```
MsgBox n.message
```

commonMetadata as QTKitMetadataItemMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array containing QTMetadataItem objects for each common metadata key for which a value for the current locale

is available.

Notes:

An array containing QTMetadataItem objects for each common metadata key for which a value for the current locale is available; may be nil if there is no metadata that's appropriately localized.

The returned metadata may be tagged with default locale information or with no locale information, if that's the best available choice.

Available on Mac OS X 10.7.

Constructor

Plugin Version: 11.2 Console & Web: Yes Mac: No, Win: No, Linux: No, . **Function:** The private constructor.

CreationTime as date

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The creation time of a QTKitTrackMBS object.

Notes: (Read and Write computed property)

deleteSegment(range as QTKitTimeRangeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Deletes from a QTKitTrackMBS the segment delimited by segment.

Notes: If the track is not editable, this method raises an exception.

DimensionsHeight as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The height of a QTKitTrackMBS object.

DimensionsWidth as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The width of a QTKitTrackMBS object.

DisplayName as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The display name of a QTKitTrackMBS object.

Notes: (Read and Write computed property)

Enabled as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** True if the QTKitTrackMBS object is currently enabled, false otherwise.

Notes: (Read and Write computed property)

FormatSummary as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A string that is a localized, human-readable string that summarizes a tracks format.

Notes:

for example, 16-bit Integer (Big Endian), Stereo (L R), 48.000 kHz. This attribute is gettable but not settable.

Mac OS X v10.5 and later.

generateApertureModeDimensions

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds information to a QTKitTrackMBS needed to support aperture modes for tracks created with applications and/or versions of QuickTime that did not support aperture mode dimensions.

Notes: If the image descriptions in the track lack tags describing clean aperture and pixel aspect ratio information, the media data is scanned to see if the correct values can be divined and attached. Then the aperture mode dimensions are calculated and set. Afterwards, the HasApertureModeDimensions property

will be set to True for this track. Tracks that do not support aperture modes are not changed.

HasApertureModeDimensions as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether an aperture mode dimension has been set.

Notes:

The value to determine whether aperture mode dimensions have been set on a track, even if they are all identical to the classic dimensions (as is the case for content with square pixels and no edge-processing region).

(Read and Write computed property)

ID as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The track ID of a QTKitTrackMBS object.

Notes: (Read and Write computed property)

insertEmptySegmentAt(range as QTKitTimeRangeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Inserts into a QTKitTrackMBS an empty segment delimited by the range range.

Notes: If the track is not editable, this method raises an exception.

insertSegmentOfTrack(Track as QTKitTrackMBS, fromRange as QTKitTimeRangeMBS, scaledToRange as QTKitTimeRangeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Inserts the specified segment from the track into the receiver, scaled to the range dstRange.

Notes: This is essentially an Add Scaled operation on a track. If the track is not editable, this method raises an exception.

See also:

- 2.6.1 insertSegmentOfTrack(Track as QTKitTrackMBS, timeRange as QTKitTimeRangeMBS, atTime

as QTKitTimeMBS)

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insertSegmentOfTrack(Track as QTKitTrackMBS, timeRange as QTKitTimeRangeMBS, atTime as QTKitTimeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Inserts into a QTKitTrackMBS at time time the selection in movie delimited by the time range range.

Notes: If the track is not editable, this method raises an exception.

See also:

- 2.6.1 insertSegmentOfTrack(Track as QTKitTrackMBS, fromRange as QTKitTimeRangeMBS, scaledToRange as QTKitTimeRangeMBS) 145

IsChapterTrack as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether this track is a chapter track or not.

Notes: (Read and Write computed property)

Layer as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The track layer of a QTKitTrackMBS object.

Notes: (Read and Write computed property)

media as QTKitMediaMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the media associated with a QTKitTrackMBS object.

MediaType as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media type of a QTKitTrackMBS object.

Example:

```

dim f as FolderItem

f=SpecialFolder.Desktop.Child("test.mov")

dim t as QTKitTrackMBS

// Load movie
dim m as new QTKitMovieMBS(f)

// get tracks
dim tracks() as QTKitTrackMBS = m.tracks

// find first track
t = tracks(0)

// show media type
MsgBox t.mediaType

// show bounds
MsgBox "Width: " + str(t.BoundsWidth) + EndOfLine + "Height: " + str(t.BoundsHeight)

Exception n as NSEExceptionMBS
MsgBox n.message

```

Notes: (Read and Write computed property)

metadataForFormat(format as string) as QTKitMetadataItemMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of QTKitMetadataItem objects having a specified format.

Notes:

format: The metadata format for which items are requested.

Returns an array containing all QTKitMetadataItem objects of the receiver that have the specified format; may be nil if there is no metadata of the specified format.

Available on Mac OS X 10.7.

ModificationTime as date

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The modification time of a QTKitTrackMBS object.

Notes: (Read and Write computed property)

movie as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the movie that contains a QTKitTrackMBS object.

Range as QTKitTimeRangeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The range of time this track occupies.

Notes: (Read and Write computed property)

removeApertureModeDimensions

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Removes aperture mode dimension information from the target track.

Notes: It does not attempt to modify sample descriptions, so it may not completely reverse the effects of generateApertureModeDimensions. It sets the HasApertureModeDimensions property to false.

scaleSegment(range as QTKitTimeRangeMBS, time as QTKitTimeMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Scales the QTKitTrackMBS segment delimited by the segment segment so that it will have the new duration newDuration.

Notes: If the track is not editable, this method raises an exception.

setApertureModeDimensions(width as double, height as double, mode as string)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the dimensions of the target track for the specified movie aperture mode.

Notes: Available in Mac OS X v10.3 and later.

SetBounds(x as double, y as double, width as double, height as double)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the bounding rectangle of the track.

SetDimensions(width as double, height as double)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the dimension of the track.

TimeScale as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The time scale of this track.

Notes:

For example 600 time units per second.
(Read and Write computed property)

trackAttributes as dictionary

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a dictionary containing the current values of public attributes of a QTKitTrackMBS object.

Notes:

This method can be called when the movie containing this track has been initialized with QTMovieOpenForPlaybackAttribute set to true.
(Read and Write computed property)

TrackHandle as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the QuickTime track handle associated with a QTKitTrackMBS object.

trackWithQuickTimeTrack(TrackHandle as integer, byref error as NSErrorMBS) as QTKitTrackMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a QTKitTrackMBS object associated with a QuickTime Track.

Notes:

TrackHandle: A QuickTime Track handle with which to initialize the QTKitTrackMBS object.
 error: An NSError object; if a QTKitTrackMBS object cannot be created, an NSError object is returned in this location.

This method cannot be called when the movie containing this track has been initialized with QTMovieOpenForPlaybackAttribute set to true. In addition, this method cannot be called by 64-bit applications.

Available in Mac OS X v10.3 and later.
 Not available to 64-bit applications.

Make sure the track stays alive long enough.

UsageInMovie as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether is track is used for the movie.

Notes: (Read and Write computed property)

UsageInPoster as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether is track is used for poster.

Notes: (Read and Write computed property)

UsageInPreview as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether is track is used for preview.

Notes: (Read and Write computed property)

volume as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The volume of a QTKitTrackMBS.

Notes:

The valid range is 0.0 to 1.0.

(Read and Write computed property)

2.6.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the QTKitTrackMBS object.

Notes: (Read and Write property)

2.7 class QTKitMovieViewMBS

class QTKitMovieViewMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A QTMovieView is a subclass of NSView that can be used to display and control QuickTime movies.

Notes:

You normally use a `QTMovieView` in combination with a `QTKitMovieMBS` object, which supplies the movie being displayed. A `QTMovieView` also supports editing operations on the movie.

The movie can be placed within an arbitrary bounding rectangle in the views coordinate system, and the remainder of the view can be filled with a fill color. The movie controller, if it is visible, can also be placed within an arbitrary bounding rectangle in the views coordinate system.

You can embed this view in a `CustomNSViewMBS` to get more events for mouse and keyboard. Subclass of the `NSViewMBS` class.

2.7.1 Methods

add

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method adds the contents of the clipboard to the movie at the current movie time.

Notes:

This action is undoable. If the movie is not editable, this method raises an exception.

Available in Mac OS X v10.3 and later.

addScaled

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method adds the contents of the clipboard to the movie, scaled to fit into the current movie selection.

Notes: This action is undoable. If the movie is not editable, this method raises an exception.

available as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the `QTMovieView` class is available.

BackButtonVisible as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the current visibility state of the specified controller bar button.

Notes:

Available in Mac OS X v10.5 and later.
(Read and Write computed property)

Constructor

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new QTKit movie view with size 100/100 and position 0/0

Example:

```
dim t as new QTKitMovieViewMBS
```

Notes: On success the handle property is not zero.

See also:

- 2.7.1 Constructor(Handle as Ptr) 153
- 2.7.1 Constructor(left as double, top as double, width as double, height as double) 154

Constructor(Handle as Ptr)

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates an object based on the given QTKitMovieView handle.

Example:

```
dim t as new QTKitMovieViewMBS(0, 0, 100, 100)
dim v as new QTKitMovieViewMBS(t.handle)
```

```
MsgBox str(v.Bounds.Width)+" x "+str(v.Bounds.Height)
```

Notes: The handle is casted to a QTKitMovieView and the plugin retains this handle.

See also:

- 2.7.1 Constructor 153
- 2.7.1 Constructor(left as double, top as double, width as double, height as double) 154

Constructor(left as double, top as double, width as double, height as double)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new QTKit movie view with the given size and position.

Example:

```
dim x as new QTKitMovieViewMBS(0, 0, 100, 100)
```

Notes:

On success the handle property is not zero.

The new movie view object must be inserted into the view hierarchy of an NSWindow before it can be used.

This method is the designated initializer for the QTKMovieView class.

See also:

- 2.7.1 Constructor 153
- 2.7.1 Constructor(Handle as Ptr) 153

controllerBarHeight as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the height of the controller bar.

copy

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method copies the current movie selection onto the clipboard.

Notes: If there is no selection, the current frame is copied. The movie does not need to be editable.

CustomButtonVisible as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current visibility state of the specified controller bar button.

Notes:

Available in Mac OS X v10.5 and later.
(Read and Write computed property)

cut

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method deletes the current movie selection from the movie, placing it on the clipboard.

Notes: If there is no selection, the current frame is deleted. This action is undoable. If the movie is not editable, this method raises an exception.

delete

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method deletes the current movie selection from the movie, placing it on the clipboard.

Notes: If there is no selection, the current frame is deleted. This action is undoable. If the movie is not editable, this method raises an exception.

Destructor

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The destructor.

fillColor as NSColorMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the fill color of the QTMovieView.

Notes: (Read and Write computed property)

gotoBeginning

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method sets the current movie time to the beginning of the movie.

Notes: If the movie is playing, the movie continues playing from the new position.

gotoEnd

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method sets the current movie time to the end of the movie.

Notes: If the movie is playing in one of the looping modes, the movie continues playing accordingly; otherwise, play stops.

gotoNextSelectionPoint

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method sets the current movie time to the next selection point.

gotoPosterFrame

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method sets the current movie time to the movie poster frame.

gotoPreviousSelectionPoint

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method sets the current movie time to the previous selection point.

HotSpotButtonVisible as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current visibility state of the specified controller bar button.

Notes:

Available in Mac OS X v10.5 and later.
(Read and Write computed property)

isControllerVisible as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if true movie controller bar of the QTMovieView object is visible. The default is true.

Notes: (Read and Write computed property)

isEditable as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the QTMovieView object is editable.

Notes:

When editable, a movie can be modified using editing methods and associated key commands. The default is false.

(Read and Write computed property)

movie as QTKitMovieMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The QTKitMovieMBS object associated with the QTMovieView.

Notes: (Read and Write computed property)

movieBounds as NSRectMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The rectangle currently occupied by the movie in a QTMovieView.

Notes: This rectangle does not include the area occupied by the movie controller bar (if its visible).

movieBoundsHeight as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The height of the rectangle currently occupied by the movie in a QTMovieView.

Notes: This rectangle does not include the area occupied by the movie controller bar (if its visible).

movieBoundsLeft as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The left position of the rectangle currently occupied by the movie in a QTMovieView.

Notes: This rectangle does not include the area occupied by the movie controller bar (if its visible).

movieBoundsTop as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The top position of the rectangle currently occupied by the movie in a QTMovieView.

Notes: This rectangle does not include the area occupied by the movie controller bar (if its visible).

movieBoundsWidth as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The width of the rectangle currently occupied by the movie in a QTMovieView.

Notes: This rectangle does not include the area occupied by the movie controller bar (if its visible).

movieControllerBounds as NSRectMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The rectangle currently occupied by the movie controller bar (if its visible) in a QTMovieView.

movieControllerBoundsHeight as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the height value of the rectangle currently occupied by the movie controller bar (if its visible) in a QTMovieView.

movieControllerBoundsLeft as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the left value of the rectangle currently occupied by the movie controller bar (if its visible) in a QTMovieView.

movieControllerBoundsTop as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the top value of the rectangle currently occupied by the movie controller bar (if its visible) in a QTMovieView.

movieControllerBoundsWidth as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the width value of the rectangle currently occupied by the movie controller bar (if its visible) in a QTMovieView.

paste

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method inserts the contents of the clipboard (if it contains a movie clip) into the movie at the current play position. **Notes:** This action is undoable. If the movie is not editable, this method raises an exception.

pause

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method pauses the movie playback. **Notes:** This method does nothing if the movie is already paused.

play

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method starts the movie playing at its current location.

Notes: This method does nothing if the movie is already playing.

preservesAspectRatio as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** True if the QTMovieView object maintains the aspect ratio of the movie when drawing it in the view.

Notes:

The remainder is filled with fillColor.
(Read and Write computed property)

QTMovieViewControllerVisibleBinding as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key in the dictionary with properties for the movie view.

Notes: A QTMovieView binding that determines whether or not the controls are visible. Value is a boolean.

QTMovieViewFillColorBinding as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key in the dictionary with properties for the movie view.

Notes: A QTMovieView binding that determines the fill color. Value is an NSColorMBS.

QTMovieViewMovieBinding as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key in the dictionary with properties for the movie view.

Notes: A QTMovieView binding that determines the receiver's movie. Value is a QTKitMovieMBS.

QTMovieViewPreservesAspectRatioBinding as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key in the dictionary with properties for the movie view.

Notes: A QTMovieView binding that determines whether or not the receiver preserves the natural aspect ratio of the movie. Value is a boolean.

replace

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method replaces the current movie selection with the contents of the clipboard.

Notes: If there is no selection, the contents of the clipboard replace the entire movie. This action is undoable. If the movie is not editable, this method raises an exception.

selectAll

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method selects the entire movie.

selectNone

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method selects nothing. Note that it does not change the movie time.

setShowsResizeIndicator(value as boolean)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Shows or hides the movie controller grow box.

stepBackward

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method steps the movie backward one frame.

StepButtonsVisible as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the current visibility state of the specified controller bar button.

Notes:

Available in Mac OS X v10.5 and later.
(Read and Write computed property)

stepForward

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method steps the movie forward one frame.

TranslateButtonVisible as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current visibility state of the specified controller bar button.

Notes:

Available in Mac OS X v10.5 and later.
(Read and Write computed property)

trim

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This action method trims the movie to the current movie selection.

Notes: If there is no selection, the current frame is retained and the remainder of the movie is deleted. This action is undoable. If the movie is not editable, this method raises an exception.

VolumeButtonVisible as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current visibility state of the specified controller bar button.

Notes:

Available in Mac OS X v10.5 and later.
(Read and Write computed property)

ZoomButtonsVisible as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current visibility state of the specified controller bar button.

Notes:

These methods allow applications to hide and show specific buttons in the movie controller bar.

Available in Mac OS X v10.5 and later.
(Read and Write computed property)

2.7.2 Events

menuForEventDelegate(e as NSEventMBS) as NSMenuMBS

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Returns an NSMenu object that is the contextual menu for the specified event.

Notes:

This event can be used instead of subclassing QTKitMovieViewMBS in cases where an application cannot hard-link against the QTKit framework.

Mac OS X v10.6; QuickTime 7.6.3 or later.

willDisplayImage(image as variant) as variant

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** You can implement this event to modify the image that is to be drawn into a QTKitMovieViewMBS.

Notes:

Image: A CImageMBS object that represents the frame that will otherwise be drawn to the QTKit-MovieViewMBS.

Return a CImageMBS object to be drawn by the capture view, or nil if the capture view should draw the original image.

The image parameter is a CImageMBS representing the captured frame that is about to be drawn into a QTKitMovieViewMBS. The delegate can return another image that modifies the source image (by applying a CFilterMBS, for example). The returned image will then be drawn into the capture view instead of the source image. The delegate can also return nil or the original image to leave the drawn image unmodified.

Mac OS X v10.5 and later.

2.8 class QTKitCustomMovieViewMBS

class QTKitCustomMovieViewMBS

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The class for a custom movie view.

Notes:

You can embed this view in a CustomNSViewMBS to get more events for mouse and keyboard. Subclass of the QTKitMovieViewMBS class.

2.8.1 Methods

Constructor

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor for a new custom QTKitCustomMovieViewMBS object.

See also:

- 2.8.1 Constructor(left as double, top as double, width as double, height as double) 165

Constructor(left as double, top as double, width as double, height as double)

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor for a new custom movie view object.

See also:

- 2.8.1 Constructor 165

2.8.2 Events

acceptsFirstResponder as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Whether to accept first responder.

Notes: Return true if your control can have the focus and false if not.

becomeFirstResponder as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Called when the object gets focus.

Notes: Return true to accept.

beginGestureWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has begun a touch gesture.

Notes:

e: An event object representing the gesture beginning.
The event will be sent to the view under the touch in the key window.
Available in Mac OS X v10.6 and later.
Return true if you handled this event.

Close

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** The event called when the custom NSView is destroyed.

endGestureWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has ended a touch gesture.

Notes:

e: An event object representing the gesture end.
Available in Mac OS X v10.6 and later.
Return true if you handled this event.

isOpaque as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Whether this view is opaque.

keyDown(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the key events.

Notes: Return true if you handled this event.

keyUp(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the key events.

Notes: Return true if you handled this event.

magnifyWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has begun a pinch gesture.

Notes:

e: An event object representing the magnify gesture.

The event will be sent to the view under the touch in the key window.

Available in Mac OS X v10.6 and later.

Return true if you handled this event.

mouseDown(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseDragged(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseEntered(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseExited(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseMoved(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseUp(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

Open

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** The event called when the custom NSView is created.

otherMouseDown(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes:

Return true if you handled this event.
Third mouse button.

otherMouseDragged(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes:

Return true if you handled this event.
Third mouse button.

otherMouseUp(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes:

Return true if you handled this event.
Third mouse button.

resignFirstResponder as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Focus is going away.
Notes: Return true to accept.

rightMouseDown(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

rightMouseDragged(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

rightMouseUp(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

rotateWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has begun a rotation gesture.

Notes:

e: An event object representing the rotate gesture.

The event will be sent to the view under the touch in the key window.

Available in Mac OS X v10.6 and later.

Return true if you handled this event.

scrollWheel(e as NSEventMBS) as boolean

Plugin Version: 12.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the subclass that the mouses scroll wheel has moved.

Notes:

e: An object encapsulating information about the wheel-scrolling event.

The default implementation simply passes this message to the next responder.
Return true to not pass the event.

swipeWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has begun a swipe gesture.

Notes:

e: An event object representing the swipe gesture.
The event will be sent to the view under the touch in the key window.
Available in Mac OS X v10.6 and later.
Return true if you handled this event.

2.9 class QTKitCompressionOptionsMBS

class QTKitCompressionOptionsMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class represents a set of compression options for a particular type of media.

Notes: QTCompressionOptions objects are used to describe compression options for different kinds of media. Compression options are created from presets keyed by a named identifier. Preset identifiers are described in the Constants section that describes the Compression Options Identifiers.

2.9.1 Methods

compressionOptionsIdentifiersForMediaType(mediatype as string) as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns all of the possible identifiers for the given media type that can be used with compressionOptionsWithIdentifier on the users system.

Notes:

mediaType: A media type used to create compression options.

Mac OS X v10.5 and later.

compressionOptionsWithIdentifier(identifier as string) as QTKitCompressionOptionsMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a QTCompressionOptions instance configured with the options for the given identifier.

Example:

```
dim c as QTKitCompressionOptionsMBS
```

```
c=QTKitCompressionOptionsMBS.compressionOptionsWithIdentifier(QTKitCompressionOptionsMBS.kOptions120SizeH26
```

```
MsgBox c.localizedDisplayName // "H.264 160x120" (German)
```

Notes: Requires Mac OS X v10.5 and later.

Equal(Other as QTKitCompressionOptionsMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns whether the receiver contains options identical to those in the given compression options object.

localizedCompressionOptionsSummary as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A localized summary of the receivers compression options.

Example:

```
dim c as QTKitCompressionOptionsMBS
```

```
c=QTKitCompressionOptionsMBS.compressionOptionsWithIdentifier(QTKitCompressionOptionsMBS.kOptions120SizeH26
```

```
MsgBox c.localizedCompressionOptionsSummary
```

```
// shows "H.264"+endofline+"Maximale Gre: 160 x 120" (this is German)
```

Notes: Returns a localized string summarizing the receiver's compression options.

localizedDisplayName as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns short localized name describing the receivers compression options.

Example:

```
dim c as QTKitCompressionOptionsMBS
```

```
c=QTKitCompressionOptionsMBS.compressionOptionsWithIdentifier(QTKitCompressionOptionsMBS.kOptions120SizeH26
```

```
MsgBox c.localizedDisplayName // "H.264 160x120" (German)
```

Notes: A localized string appropriate for display in the user interface (in a list of compression options, for example).

mediaType as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media type on which the receivers compression options should be used.

Notes: Returns a QuickTime media type, such as QTMediaTypeVideo or QTMediaTypeSound.

2.9.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the QTCompressionOptions object.

Notes: (Read and Write property)

2.9.3 Constants

kOptions120SizeH264Video="QTCompressionOptions120SizeH264Video"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses video using the H.264 codec using medium bit-rate settings with dimensions no larger than 160x120.

This is appropriate for delivery to low-bandwidth and low-capacity destinations.

kOptions120SizeMPEG4Video="QTCompressionOptions120SizeMPEG4Video"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses video using the MPEG-4 codec using medium bit-rate settings with dimensions no larger than 160x120.

This is appropriate for delivery to low-bandwidth and low-capacity destinations.

kOptions240SizeH264Video="QTCompressionOptions240SizeH264Video"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses video using the H.264 codec using medium bit-rate settings with dimensions no larger than 320x240.

This is appropriate for delivery to medium-bandwidth and medium-capacity destinations.

kOptions240SizeMPEG4Video="QTCompressionOptions240SizeMPEG4Video"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses video using the MPEG-4 codec using medium bit-rate settings with dimensions no larger than 320x240.

This is appropriate for delivery to medium-bandwidth and medium-capacity destinations.

kOptionsHighQualityAACAudio="QTCompressionOptionsHighQualityAACAudio"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses audio using the AAC codec at 64 kbps per channel.

This is appropriate for delivery of high-quality music and other audio.

kOptionsJPEGVideo="QTCompressionOptionsJPEGVideo"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

kOptionsLosslessALCAudio="QTCompressionOptionsLosslessALCAudio"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses audio using the Apple Lossless codec.

This is appropriate for an intermediate format for media that requires further processing.

kOptionsLosslessAnimationVideo="QTCompressionOptionsLosslessAnimationVideo"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses video using the Animation codec at highest quality and color depth.

This is appropriate for an intermediate format for media that requires further processing.

kOptionsLosslessAppleIntermediateVideo="QTCompressionOptionsLosslessAppleIntermediateVideo"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses video using the Apple Intermediate codec at lossless quality.

This is appropriate for an intermediate format for media that requires further processing.

kOptionsSD480SizeH264Video="QTCompressionOptionsSD480SizeH264Video"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses video using the H.264 codec using medium bit-rate settings with dimensions no larger than 720x480.

This is appropriate for delivery to medium and high-bandwidth and medium- and high-capacity destinations.

kOptionsSD480SizeMPEG4Video="QTCompressionOptionsSD480SizeMPEG4Video"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses video using the MPEG-4 codec using medium bit-rate settings with dimensions no larger than 720x480.

This is appropriate for delivery to medium and high-bandwidth and medium- and high-capacity destinations.

kOptionsVoiceQualityAACAudio="QTCompressionOptionsVoiceQualityAACAudio"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the compression options identifiers.

Notes:

Compresses audio using the AAC codec at 32 kbps per channel.
This is appropriate for delivery of voice recordings.

2.10 class QTKitCustomCaptureViewMBS**class QTKitCustomCaptureViewMBS**

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The class for a custom capture view.

Notes:

You can embed this view in a CustomNSViewMBS to get more events for mouse and keyboard.
Subclass of the QTKitCaptureViewMBS class.

2.10.1 Methods**Constructor**

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor for a new custom QTKitCustomCaptureViewMBS object.

See also:

- 2.10.1 Constructor(left as double, top as double, width as double, height as double) 177

Constructor(left as double, top as double, width as double, height as double)

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor for a new custom capture view object.

See also:

- 2.10.1 Constructor 177

2.10.2 Events

acceptsFirstResponder as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Whether to accept first responder.

Notes: Return true if your control can have the focus and false if not.

becomeFirstResponder as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Called when the object gets focus.

Notes: Return true to accept.

beginGestureWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has begun a touch gesture.

Notes:

e: An event object representing the gesture beginning.

The event will be sent to the view under the touch in the key window.

Available in Mac OS X v10.6 and later.

Return true if you handled this event.

Close

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** The event called when the custom NSView is destroyed.

endGestureWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has ended a touch gesture.

Notes:

e: An event object representing the gesture end.
Available in Mac OS X v10.6 and later.
Return true if you handled this event.

isOpaque as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Whether this view is opaque.

keyDown(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the key events.
Notes: Return true if you handled this event.

keyUp(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the key events.
Notes: Return true if you handled this event.

magnifyWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has begun a pinch gesture.
Notes:

e: An event object representing the magnify gesture.
The event will be sent to the view under the touch in the key window.
Available in Mac OS X v10.6 and later.
Return true if you handled this event.

mouseDown(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseDragged(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseEntered(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseExited(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseMoved(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

mouseUp(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

Open

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** The event called when the custom NSView is created.

otherMouseDown(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes:

Return true if you handled this event.

Third mouse button.

otherMouseDragged(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

otherMouseUp(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.

Notes: Return true if you handled this event.

resignFirstResponder as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Focus is going away.
Notes: Return true to accept.

rightMouseDown(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.
Notes:

Return true if you handled this event.
Third mouse button.

rightMouseDragged(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.
Notes: Return true if you handled this event.

rightMouseUp(e as NSEventMBS, x as double, y as double) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the mouse events.
Notes: Return true if you handled this event.

rotateWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has begun a rotation gesture.
Notes:

e: An event object representing the rotate gesture.
The event will be sent to the view under the touch in the key window.

Available in Mac OS X v10.6 and later.
Return true if you handled this event.

scrollWheel(e as NSEventMBS) as boolean

Plugin Version: 12.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the subclass that the mouse scroll wheel has moved.

Notes:

e: An object encapsulating information about the wheel-scrolling event.

The default implementation simply passes this message to the next responder.
Return true to not pass the event.

swipeWithEvent(e as NSEventMBS) as boolean

Plugin Version: 10.3 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Informs the receiver that the user has begun a swipe gesture.

Notes:

e: An event object representing the swipe gesture.
The event will be sent to the view under the touch in the key window.
Available in Mac OS X v10.6 and later.
Return true if you handled this event.

2.11 class QTKitExportSessionMBS

class QTKitExportSessionMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A QTKitExportSessionMBS object produces a transcoded output from a given QTKitMovieMBS source according to the settings in a QTKitExportOptions object.

Notes:

This class instantiates an object that manages exporting a QTKitMovieMBS object (or a collection of QTKit-

TrackMBS objects) to produce a transcoded output in the format specified in a QTExportOptions object that might be provided at initialization time.

Please also check the documentation from Apple for the QTKitExportSession class.

2.11.1 Methods

available as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether this class is available.

Example:

```
msgbox str(QTKitExportSessionMBS.available)
```

Notes: Returns true on Mac OS X 10.7.

cancel

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Cancel the execution of an asynchronous export.

Notes: Cancels the execution of a running export. Has no effect if run has not been called.

Constructor(movie as QTKitMovieMBS, exportOptions as QTKitExportOptionsMBS, file as folderitem, byref error as NSErrorMBS)

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Initialize a QTExportSession with the specified options.

Notes:

movie: A QTKitMovieMBS object that is intended to be exported.

exportOptions: A QTKitExportOptionsMBS object that describes the desired export.

file: The folderitem to be used for the result of the export.

error: If there is an error initializing the QTKitExportOptionsMBS object, an NSError containing the error

code will be assigned to error.

On success the handle property is not zero.

Destructor

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The destructor.

exportOptions as QTKitExportOptionsMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The export options used for this session.

isCancelled as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether export is cancelled.

isFinished as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether the session is finished.

isRunning as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether export is running.

localizedExportSessionOutputSummary as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a localized description of the export session intended for end-user display.

Notes: The description is a human readable text string describing the output container format and the formats of the media streams that it will contain.

progress as double

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current progress.

Notes: A double between 0.0 and 1.0 inclusive to indicate the progress of the export operation.

run

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Start or resume the export operation asynchronously.

Notes: Initiates or resumes an asynchronous export operation and returns immediately. Information regarding progress, success, or failure will be reported using the events.

waitUntilFinished(byref error as NSErrorMBS) as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Wait for the running asynchronous export operation to finish.

Notes:

Blocks the current thread until the export operation for the `QTExportSession` completes.

error: If the export operation fails, describes the reason for failure.

Returns true if the export operation succeeded, otherwise false.

2.11.2 Properties

Handle as Integer

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal handle to the QTEExportSession object.

Notes: (Read and Write property)

2.11.3 Events

DidFailWithError(error as NSErrorMBS)

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Event that indicates that the export operation ultimately failed.

Notes: error: a NSError describing the reason for failure.

DidReachProgress(progress as double)

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Event that indicates the current progress state of the export, with a range of 0.0 to 1.0.

Notes: progress: A double between 0.0 and 1.0 inclusive to indicate the progress of the export operation.

DidSucceed

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Event that indicates that the specified export operation has completed successfully.

WasCancelled

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Event that indicates that the export operation was cancelled by the user.

2.12 class QTKitDataReferenceMBS

class QTKitDataReferenceMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A QTDataReference object is a representation of a QuickTime data reference which specifies the location of a QuickTime movie or some media data.

Notes:

You can create QTDataReference objects that refer to data stored in files accessed using file names or URLs, or in memory accessed using handles, pointers, or NSData objects.

Available in Mac OS X v10.3 and later.

2.12.1 Methods

dataRefData as memoryblock

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the QuickTime data reference data associated with a QTDataReference object, stored in a memoryblock.

dataReferenceWithDataRefData(dataRefData as memoryblock, type as string) as QTKit-DataReferenceMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a QT-DataReference object of type type initialized with data from dataRefData.

Notes: Pass data you got from dataRefData and type you got from dataRefType.

dataReferenceWithReferenceToData(data as memoryblock) as QTKitDataReferenceMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a data reference referencing the given bytes in the string.

Notes: Keep the string in memory so the reference is not disabled.

See also:

- 2.12.1 `dataReferenceWithReferenceToData(data as memoryblock, name as string, mimetype as string)`
as `QTKitDataReferenceMBS` 189

**`dataReferenceWithReferenceToData(data as memoryblock, name as string, mimetype as string)`
as `QTKitDataReferenceMBS`**

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a `QTDataReference` object for the data block `data`; this data reference has two data reference extensions, a `filenaming` extension and a `MIME` type extension.

Notes: Available in Mac OS X v10.3 and later.

See also:

- 2.12.1 `dataReferenceWithReferenceToData(data as memoryblock)` as `QTKitDataReferenceMBS` 188

`dataReferenceWithReferenceToFile(file as folderitem)` as `QTKitDataReferenceMBS`

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a `QTDataReference` object for the file.

Notes: Available in Mac OS X v10.3 and later.

`dataReferenceWithURL(url as string)` as `QTKitDataReferenceMBS`

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a `QTDataReference` object for the URL `url`.

Notes: Available in Mac OS X v10.3 and later.

`dataRefType` as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the type of the data reference associated with a `QTDataReference` object.

Notes: (Read and Write computed property)

File as folderitem

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the QTDataReference object.

MIMEType as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the type in a MIME type extension associated with a QTDataReference object.

name as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the name in a filename extension associated with a QTDataReference object

QTDataReferenceTypeFile as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the possible dataRefType values.

QTDataReferenceTypeHandle as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the possible dataRefType values.

QTDataReferenceTypePointer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the possible dataRefType values.

QTDataReferenceTypeResource as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the possible dataRefType values.

QTDataReferenceTypeURL as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the possible dataRefType values.

referenceData as memoryblock

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the reference data of a QTDataReference object, that is, the NSData object passed to dataReferenceWithReferenceToData.

Notes: For some QTDataReference objects, this may be nil.

referenceFile as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the file name of the data reference associated with a QTDataReference object.

Notes: For some QTDataReference objects, this name may be NIL.

referenceURL as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the URL of the data reference associated with a QTDataReference object. #

Notes: For some QTDataReference objects, this URL may be NIL.

2.12.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference to the QTDataReference object.

Notes: (Read and Write property)

2.13 class QTKitExportOptionsMBS

class QTKitExportOptionsMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A QTKitExportOptions is a collection of settings that define an export that can be executed by a QTKitExportSession object.

Notes:

A QTKitExportOptions object is initialized with an export identifier and is used to configure a QTKitExportSession. It can provide some information about the export that will be performed if it is used to configure a QTKitExportSession. The class also provided methods that allow the client to query what identifiers are available.

Please also check the documentation from Apple for the QTKitExportOptions class.
Available on Mac OS X 10.7.

2.13.1 Methods

allExportOptionsIdentifiers as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns all available identifiers used for retrieving preset export options.

Example:

```
MsgBox join(QTKitExportOptionsMBS.allExportOptionsIdentifiers, endofline)
```

Notes: Note that not all identifiers are compatible with all movies.

available as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether this class is available.

Example:

```
msgbox "Available: "+str(QTKitExportOptionsMBS.available)
```

Notes: Should return true on Mac OS X 10.7.

Constructor(identifier as string)

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Create an instance of QTExportOptions for the export type with the specified identifier.

Example:

```
dim q as new QTKitExportOptionsMBS(QTKitExportOptionsMBS.QTExportOptionsAppleM4VAppleTV)
MsgBox q.localizedExportOptionsSummary
```

Notes: identifier: Determines the type of the output container file (e.g. QuickTime movie file, iPod video file, etc.) and the compression options for the output media.

copy as QTKitExportOptionsMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a copy of the object.

exportOptionsIdentifiersCompatibleWithMovie(movie as QTKitMovieMBS) as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns only the identifiers compatible with the given QTKitMovieMBS object.

Example:

```
dim file as FolderItem = SpecialFolder.Desktop.Child("test.mov")
dim m as new QTKitMovieMBS(file)

dim names() as string = QTKitExportOptionsMBS.exportOptionsIdentifiersCompatibleWithMovie(m)

MsgBox Join(names, EndOfLine)
```

Notes:

Not all export setups are compatible with all movies. This method returns only the identifiers for options that will be compatible with the given movie. A client should pass in a movie that is ready to be exported. In order to ensure that the setup and running of an export operation will succeed using a set of options from the returned identifiers, no significant changes (such as adding or deleting tracks) should be made to the movie between retrieving compatible identifiers and performing the export operation.

movie: A QTKitMovieMBS object that is intended to be exported.

Returns an array containing NSString values for the identifiers of compatible export types. The array is a complete list of the valid identifiers that can be used as arguments to exportOptionsWithIdentifier along with the movie specified.

exportOptionsWithIdentifier(identifier as string) as QTKitExportOptionsMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Create an instance of QTExportOptions for the export type with the specified identifier.

Example:

```
dim q as QTKitExportOptionsMBS

q = QTKitExportOptionsMBS.exportOptionsWithIdentifier(QTKitExportOptionsMBS.QTExportOptionsAppleM4VAppleTV)

MsgBox q.localizedExportOptionsSummary
```

Notes: identifier: Determines the type of the output container file (e.g. QuickTime movie file, iPod video file, etc.) and the compression options for the output media.

localizedExportOptionsSummary as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a localized description of the export options intended for end-user display.

Example:

```
dim q as QTKitExportOptionsMBS
```

```
q = QTKitExportOptionsMBS.exportOptionsWithIdentifier(QTKitExportOptionsMBS.QTExportOptionsAppleM4VAppleTV)
```

```
MsgBox q.localizedExportOptionsSummary
```

localizedNameForExportOptionsIdentifier(identifier as string) as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a short localized name for the given export identifiers.

Example:

```
MsgBox QTKitExportOptionsMBS.localizedNameForExportOptionsIdentifier(QTKitExportOptionsMBS.QTExportOptionsAppleM4VAppleTV)
```

Notes:

The returned name will fit on one line and is suitable for displaying in a list or menu of export identifiers in the user interface.

identifier: An export options identifier.

QTExportOptionsAppleM4A as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifiers.

Notes: This export option will produce an audio only .m4a file with appropriate gapless playback data.

QTExportOptionsAppleM4V480pSD as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifiers.

Notes:

These export options are used to produce files that can be played on the specified Apple devices. The files should have .m4v extensions (or .m4a for exports with audio only sources).

QTExportOptionsAppleM4V720pHD as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifiers.

Notes:

These export options are used to produce files that can be played on the specified Apple devices. The files should have .m4v extensions (or .m4a for exports with audio only sources).

QTExportOptionsAppleM4VAppleTV as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifiers.

Notes:

These export options are used to produce files that can be played on the specified Apple devices. The files should have .m4v extensions (or .m4a for exports with audio only sources).

QTExportOptionsAppleM4VCellular as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifiers.

Notes:

These export options are used to produce files that can be played on the specified Apple devices. The files should have .m4v extensions (or .m4a for exports with audio only sources).

QTExportOptionsAppleM4ViPod as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifier.

Notes:

These export options are used to produce files that can be played on the specified Apple devices. The files should have .m4v extensions (or .m4a for exports with audio only sources).

QTExportOptionsAppleM4VWiFi as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifiers.

Notes:

These export options are used to produce files that can be played on the specified Apple devices. The files should have .m4v extensions (or .m4a for exports with audio only sources).

QTExportOptionsQuickTimeMovie1080p as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifiers.

Notes: These export options can be used to produce QuickTime .mov files with the specified video size. The export will not scale the video up from a smaller size. The video will be compressed using H.264 and the audio will be compressed using AAC.

QTExportOptionsQuickTimeMovie480p as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifiers.

Notes: These export options can be used to produce QuickTime .mov files with the specified video size. The export will not scale the video up from a smaller size. The video will be compressed using H.264 and the audio will be compressed using AAC.

QTExportOptionsQuickTimeMovie720p as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the export options identifiers.

Notes: These export options can be used to produce QuickTime .mov files with the specified video size. The export will not scale the video up from a smaller size. The video will be compressed using H.264 and the audio will be compressed using AAC.

recommendedFileTypesForExportedFile as string()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of UTI file types as NSStrings that best fit the export described by the QTExportOptions object.

Example:

```
dim q as QTKitExportOptionsMBS = QTKitExportOptionsMBS.exportOptionsWithIdentifier(QTKitExportOptionsMBS.QTExportOptionsAppleM4VAppleTV)
```

```
MsgBox join(q.recommendedFileTypesForExportedFile, EndOfLine)
```

Notes: The first entry in the list is the currently recommended choice.

2.13.2 Properties**Handle as Integer**

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference to the QTExportOptions object.

Notes: (Read and Write property)

2.14 class QTKitCaptureDeviceMBS

class QTKitCaptureDeviceMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class represents an available capture device.

Notes:

Each instance of QTCaptureDevice corresponds to a capture device that is connected or has been previously connected to the users computer during the lifetime of the application. Instances of QTCaptureDevice cannot be created directly. A single unique instance is created automatically whenever a device is connected to the computer and can be accessed using the deviceWithUniqueID: class method. An array of all currently connected devices can also be obtained using the inputDevices: class method.

Devices can provide one or more stream of a given media type. Applications can search for devices that provide media of a specific type using the inputDevicesWithMediaType and defaultInputDeviceWithMediaType class methods. Table 1 details the media types supported by QTCaptureDevice and examples of devices that support them:

Media Type	Description	Example Devices
QTMediaTypeVideo	Media that only contains video frames.	iSight cameras (external and built-in); USB and FireWire webcams
QTMediaTypeMuxed	Multiplexed media that may contain audio, video, and other data in a single stream.	DV cameras
QTMediaTypeSound	Media that only contains audio samples.	Built-in microphones and line-in jacks; the microphone built-in to the external iSight; USB microphones and headsets; any other device supported by Core Audio.

2.14.1 Methods

attributeForKey(key as string) as variant

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a device attribute for the given key.

Notes:

Use this method to get attributes of a device. The keys that can be used with this method are described in the Constants section.

Mac OS X v10.5 and later.

(Read and Write computed property)

attributeIsReadOnly(attributeKey as string) as boolean

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns whether the given attribute for the device cannot be modified.

Notes: Returns true if the attribute cannot be modified; otherwise, false.

close

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Releases application control over the device acquired in the open method.

Notes: This method should be called to match each invocation of open when an application no longer needs to use a device for capture. If a device is disconnected or turned off while it is open it will be closed automatically. Applications should check if a device has not been closed automatically by registering to receive `QTCaptureDeviceWasDisconnectedNotification` or by checking `isOpen` before manually closing the device using this method.

defaultInputDeviceWithMediaType(mediaType as string) as QTKitCaptureDeviceMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a `QTCaptureDevice` instance for the default device connected to the users system of the given media type.

Notes:

The default device with the given media type on the users system, or nil if no device with that media type exists.

This method returns the default device of the given media type connected to the users system. For example, for `QTMediaTypeSound`, this method will return the default sound input device selected in the Sound Preference Pane. If there is no device for the given media type, this method will return nil.

deviceAttributes as dictionary

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a dictionary of the devices current attributes.

Notes:

Applications can use this method to determine what attributes a specific device supports.

Available in Mac OS X v10.5 and later.
(Read and Write computed property)

deviceWithUniqueID(uniqueID as string) as QTKitCaptureDeviceMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a QTCaptureDevice instance with the identifier device UID.

Notes:

If a device with unique identifier deviceUID was connected to the computer at some point during the lifetime of the application, this method returns a QTCaptureDevice instance for that identifier. Otherwise, this method returns nil.

Every capture device available to the computer is assigned a unique identifier that persists on one computer across device connections and disconnections, as well as across reboots of the computer. This method can be used to recall or track the status of a specific device, even if it has been disconnected.

formatDescriptions as QTKitFormatDescriptionMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of stream formats currently in use by the device.

Notes:

Returns an array of QTKFormatDescriptionMBS objects describing the current stream formats of the device.

Applications can use this method to determine what kind of media the receiver outputs. Applications can be notified of format changes by registering to receive QTCaptureDeviceFormatDescriptionsWillChangeNotification and QTCaptureDeviceFormatDescriptionsDidChangeNotification notifications or by adding a key value observer for the key "formatDescriptions".

Availability
Available in Mac OS X v10.5 and later.

hasMediaType(mediatype as string) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns whether the receiver sends a stream with the given media type.

Notes: Returns true if the device outputs the given media type, false otherwise.

inputDevices as QTKitCaptureDeviceMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of devices currently connected to the computer that can be used as input sources.

Notes:

Returns an array of QTCaptureDevice instances for each connected device. If there are no available devices, the returned array will be empty.

This method queries the device system and builds an array of QTCaptureDevice instances for input devices currently connected and available for capture. The returned array contains all devices that are available when the method is called. Applications should observe QTCaptureDeviceWasConnectedNotification and QTCaptureDeviceWasDisconnectedNotification to be notified when the list of available devices has changed.

Mac OS X v10.5 and later.

inputDevicesWithMediaType(mediatype as string) as QTKitCaptureDeviceMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of input devices currently connected to the computer that send a stream with the given media type.

Notes:

mediaType: The media type, such as QTMediaTypeVideo, QTMediaTypeSound, or QTMediaTypeMuxed, supported by each returned device.

Returns an array of QTCaptureDevice instances for each connected device with the given media type. If there are no available devices, the returned array will be empty.

This method queries the device system and builds an array of QTCaptureDevice instances for input devices that are currently connected and output streams of the given media type.

isConnected as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the device is connected to the computer.

Notes: This method checks whether the receiver's device is currently connected to the computer and available for use by applications.

isInUseByAnotherApplication as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the device is connected, but being exclusively used by another application.

Notes: If the device can only be accessed by one process at a time, this method checks if the process that has exclusive control over the current process.

isOpen as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns true if the device is open in the current application.

Notes: The method checks if the device was previously successfully opened with the receiver's open method. If this method returns true, the device can be used immediately for capture.

LegacySequenceGrabberHandle as integer

Plugin Version: 8.7 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** If a device was initialized using a legacy Sequence Grabber component, this attribute returns the component instance responsible for capturing from the device.

Notes: Value is always zero for 64bit.

LinkedDevices as QTKitCaptureDeviceMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of QTKaptureDevice objects that, although they are separate devices on the system, are a part of the same

physical device as the receiver.

Notes:

For example, for the external iSight camera, this attribute returns an array containing a `QTCaptureDevice` for the external iSight microphone.

Available in Mac OS X v10.5 and later.

localizedDisplayName as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a localized human-readable name for the receivers device.

Notes: This method can be used when displaying the name of a capture device in the user interface.

modelUniqueID as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the unique ID of the model of the receivers device.

Notes: The unique identifier returned by this method is unique to all devices of the same model. The value is persistent across device connections and disconnections, and across different computers.

open(byref error as NSErrorMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Opens the device.

Notes:

Returns true on success.

The error property is set with the error.

QTCaptureDeviceAttributeDidChangeNotification as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with the `NSNotificationObserverMBS` class.

Notes:

Posted when the one of devices attributes has changed.

The notifications user info dictionary will contain the attribute key of the changed attribute for the key `QTCaptureDeviceChangedAttributeKey`.

QuickTime 7.2.1 and later

QTCaptureDeviceAttributeWillChangeNotification as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with the `NSNotificationObserverMBS` class.

Notes:

Posted when one of the device's attributes is about to change.

The notifications user info dictionary will contain the attribute key of the changed attribute for the key `QTCaptureDeviceChangedAttributeKey`.

QuickTime 7.2.1 and later

QTCaptureDeviceAvailableInputSourcesAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

For devices with multiple possible input sources, returns an array of dictionaries describing each available input source. Some devices can capture data from one of multiple input sources (different input jacks on the same audio device, for example). The value is an Array of Dictionary objects. The keys in each dictionary are described in Input Source Dictionary Keys. This string value can be used in key paths for key value coding, key value observing, and bindings.

Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

Returns whether or not data capture on the device is suspended due to a feature on the device. For example, this attribute is true for the external iSight when its privacy iris is closed, or for the internal iSight on a

notebook when the notebooks display is closed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsPlaybackModeKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes: A value provided with the QTCaptureDeviceAVCTransportControlsPlaybackModeKey key that specifies whether the device previews audio and displays video while it is running through linear media. QTCaptureDeviceAVCTransportControlsNotPlayingMode is equivalent to the Play mode on most cameras and tape decks, while QTCaptureDeviceAVCTransportControlsPlayingMode is equivalent to Stop on most cameras and tape decks. If the device is connected to a session, the video at the current location on the devices media will only be captured if this attribute is set to QTCaptureDeviceAVCTransportControlsNotPlayingMode.

QTCaptureDeviceAVCTransportControlsSpeedKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

Specifies the approximate rate at which the device runs through linear media. The value is an NSNumber interpreted as a QTCaptureDeviceAVCTransportControlsSpeed. This is one of the keys that comprise the NSDictionary that specifies the linear media playback mode and rate given by the QTCaptureDeviceAVCTransportControlsAttribute.

Available in Mac OS X v10.5 and later.

QTCaptureDeviceChangedAttributeKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

Indicates the key of the attribute that changed. Used as a key in the userInfo dictionary passed to QTCaptureDeviceAttributeWillChangeNotification, and QTCaptureDeviceAttributeDidChangeNotification to indicate the key of the attribute that changed.

Available in Mac OS X v10.5 and later.

QTCaptureDeviceFormatDescriptionsDidChangeNotification as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with the NSNotificationObserverMBS class.

Notes:

Posted when the devices formats that are returned by the formatDescriptions method have just changed.
QuickTime 7.2.1 and later

QTCaptureDeviceFormatDescriptionsWillChangeNotification as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with the NSNotificationObserverMBS class.

Notes:

Posted when the device's formats that are returned by the formatDescriptions method are about to change.
QuickTime 7.2.1 and later

QTCaptureDeviceInputSourceIdentifierAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

Used to get and set the currently used input source for the device. Some devices can capture data from one of multiple input sources (different input jacks on the same audio device, for example). The value is an object returned by the QTCaptureDeviceInputSourceIdentifierKey key in one of the dictionaries returned by QTCaptureDeviceAvailableInputSourcesAttribute. This string value can be used in key paths for key value coding, key value observing, and bindings.

Available in Mac OS X v10.5 and later.

QTCaptureDeviceInputSourceIdentifierKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

An object representing a unique ID for the input source. This ID is not guaranteed to persist between device connections or changes in device configuration. To set the input source for a device, set `QTCaptureDeviceInputSourceIdentifierAttribute` to the value returned by this key. This string value can be used in key paths for key value coding, key value observing, and bindings.

This key, along with the `QTCaptureDeviceInputSourceLocalizedDisplayNameKey` key, comprises the `NSDictionary` objects describing input sources returned by `QTCaptureDeviceAvailableInputSourcesAttribute`. Available in Mac OS X v10.5 and later.

QTCaptureDeviceInputSourceLocalizedDisplayNameKey as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

The localized display name of an input source, suitable for display in a user interface. This string value can be used in key paths for key value coding, key value observing, and bindings.

This key, along with the `QTCaptureDeviceInputSourceIdentifierKey` key, comprises the `NSDictionary` objects describing input sources returned by `QTCaptureDeviceAvailableInputSourcesAttribute`.

Available in Mac OS X v10.5 and later.

QTCaptureDeviceLegacySequenceGrabberAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

An `NSValue` interpreted as a `ComponentInstance` for the legacy sequence grabber component used by the device. Some older devices are opened and controlled by legacy Sequence Grabber components. Applications that need to configure legacy devices directly through the Sequence Grabber configuration dialog can access an open component instance with this attribute.

This string value can be used in key paths for key-value coding, key-value observing, and bindings.

If the device is being used in a capture session, do not modify properties of the returned Sequence Grabber component (by displaying the configuration dialog, for example) while the session is running. Doing so will prevent the capture session from capturing more frames.

Available in Mac OS X v10.5 and later.

Not available to 64-bit applications.

QTCaptureDeviceLinkedDevicesAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

Returns an array of QTCaptureDevice objects that, although they are separate devices on the system, are a part of the same physical device as the receiver. For example, for the external iSight camera, this attribute returns an array containing a QTCaptureDevice for the external iSight microphone.

Available in Mac OS X v10.5 and later.

QTCaptureDeviceSuspendedAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attribute dictionary.

Notes:

Returns whether or not data capture on the device is suspended due to a feature on the device. For example, this attribute is true for the external iSight when its privacy iris is closed, or for the internal iSight on a notebook when the notebooks display is closed.

Available in Mac OS X v10.5 and later.

QTCaptureDeviceWasConnectedNotification as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with the NSNotificationObserverMBS class.

Notes:

Posted when a device is connected or turned on.

QuickTime 7.2.1 and later

QTCaptureDeviceWasDisconnectedNotification as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with the NSNotificationObserverMBS class.

Notes:

Posted when a device is disconnected or turned off.
QuickTime 7.2.1 and later

Suspended as boolean

Plugin Version: 8.7 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This attribute returns whether or not data capture on the device is suspended due to a feature on the device.

Notes: For example, this attribute is true for the external iSight when its privacy iris is closed, or for the internal iSight on a notebook when the notebook's display is closed.

uniqueID as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the unique ID of the receivers device.

Notes: The unique identifier returned by this method is persistent on one computer across device connections and disconnections, as well as across reboots of the computer. It can be passed to the deviceWithUniqueID class method to get the QTCaptureDevice instance for the device with that unique identifier.

2.14.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the QTCaptureDevice object.

Notes: (Read and Write property)

2.14.3 Constants

QTCaptureDeviceAVCTransportControlsFastestForwardSpeed = 19000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs forward at greater than than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsFastestReverseSpeed = -19000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs in reverse at greater than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsFastForwardSpeed = 13000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs forward at greater than than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsFastReverseSpeed = -13000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs in reverse at greater than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsNormalForwardSpeed = 10000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs forward at normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsNormalReverseSpeed = -10000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs in reverse at normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsNotPlayingMode = 0

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants for the QTCaptureDeviceAVCTransportControlsPlaybackModeKey key.

QTCaptureDeviceAVCTransportControlsPlayingMode = 1

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants for the QTCaptureDeviceAVCTransportControlsPlaybackModeKey key.

QTCaptureDeviceAVCTransportControlsSlowestForwardSpeed = 1000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs forward at less than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsSlowestReverseSpeed = -1000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs in reverse at less than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsSlowForwardSpeed = 7000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs forward at less than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsSlowReverseSpeed = -7000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs in reverse at less than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsStoppedSpeed = 0

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media is paused.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsVeryFastForwardSpeed = 16000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs forward at greater than than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsVeryFastReverseSpeed = -16000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs in reverse at greater than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsVerySlowForwardSpeed = 4000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs forward at less than normal speed.
Available in Mac OS X v10.5 and later.

QTCaptureDeviceAVCTransportControlsVerySlowReverseSpeed = -4000

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the value constants used with the QTCaptureDeviceAVCTransportControlsAttribute key.

Notes:

Media runs in reverse at less than normal speed.
Available in Mac OS X v10.5 and later.

2.15 class QTKitCaptureDecompressedAudioOutputMBS

class QTKitCaptureDecompressedAudioOutputMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class represents an output destination for a QTCaptureSession object that can be used to process audio sample buffers from the audio being captured.

Notes:

Instances of QTCaptureDecompressedAudioOutput produce audio sample buffers suitable for custom high-quality realtime processing. Applications can access the audio sample buffers via the didOutputAudioSampleBuffer event. Clients can also create subclasses of QTCaptureDecompressedAudioOutput to add custom capturing behavior.

Subclass of the QTKitCaptureOutputMBS class.

2.15.1 Methods

Constructor

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor.

2.15.2 Events

didOutputAudioSampleBuffer(sampleBuffer as QTKitSampleBufferMBS, connection as QTKitCaptureConnectionMBS)

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Called whenever the audio data output outputs a new audio sample buffer.

Notes:

sampleBuffer: A sample buffer containing the audio data and additional information about the buffer, such as its presentation time.

connection: The connection from which the audio was received.

You can use the provided sample buffer for custom processing of captured audio.

In addition, this method is called periodically, so it must be efficient to prevent capture performance problems.

Mac OS X v10.5 and later; QuickTime 7.6.3.

2.16 class QTKitCaptureDeviceInputMBS

class QTKitCaptureDeviceInputMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class represents the input source for media devices, such as cameras and microphones.

Notes:

Instances of QTCaptureDeviceInput are input sources for QTCaptureSession that provide media data from devices connected to the computer. Devices used with QTCaptureDeviceInput can be found using the QTCaptureDevice class. A QTCaptureDevice must be successfully opened using the open method before being used in a QTCaptureDeviceInput.

Subclass of the QTKitCaptureInputMBS class.

2.16.1 Methods

Constructor(device as QTKitCaptureDeviceMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor to create a new capture device object.

device as QTKitCaptureDeviceMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the device associated with the receiver.

Notes: If there is a device associated with the receiver, returns a corresponding instance of QTCaptureDevice. Otherwise returns nil.

deviceInputWithDevice(device as QTKitCaptureDeviceMBS) as QTKitCaptureDeviceInputMBS

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The device input for the given device.

Notes: Returns nil on any error.

2.17 class QTKitCaptureDecompressedVideoOutputMBS

class QTKitCaptureDecompressedVideoOutputMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class represents an output destination for a QTCaptureSession object that can be used to process decompressed frames from the video being captured.

Notes:

Instances of QTCaptureDecompressedVideoOutput produce decompressed video frames suitable for high-quality processing. Because instances maintain maximum frame quality and avoid dropping frames, using this output may result in reduced performance while capturing. Applications that need to process decompressed frames but can tolerate dropped frames or drops in decompression quality should use QTCaptureVideoPreviewOutput instead. Applications can access the decompressed frames via the captureOutput event. Clients can also create subclasses of QTCaptureDecompressedVideoOutput to add custom capturing behavior.

The plugin implements for you the delegate QTKit needs.
Subclass of the QTKitCaptureOutputMBS class.

2.17.1 Methods

automaticallyDropsLateVideoFrames as boolean

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** True if the receiver drops late video frames and returns false otherwise.

Notes:

Requires QuickTime 7.6.3.
(Read and Write computed property)

Constructor

Plugin Version: 8.5 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor to create an initialize a Capture Output for decompressed video.

LastFrame as NSImageMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the last received frame as NSImage.

Notes: May return nil on any error.

minimumVideoFrameInterval as double

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A double specifying the minimum interval between video frames.

Notes:

Value is 0 if there is no frame rate limit set.

Requires QuickTime 7.6.3.
(Read and Write computed property)

pixelBufferAttributes as dictionary

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The CoreVideo pixel buffer attributes that determine what kind of pixel buffers are output by the receiver.

Notes:

This method sets or gets the pixel buffer attributes that clients can use to customize the size and pixel format of the video frames output by the receiver. When the dictionary is non-nil, the receiver will attempt to output pixel buffers using the attributes specified in the dictionary. A non-nil dictionary also guarantees that the output CVPixelBuffer is a CVPixelBuffer. When the value for kCVPixelBufferPixelFormatTypeKey is set to an number, all image buffers output by the receiver will be in that format. When the value is an array, image buffers output by the receiver will be in the most optimal format specified in that array. If the captured images are not in the one of the specified pixel formats, then a format conversion will be performed. If the dictionary is NIL or there is no value for the kCVPixelBufferPixelFormatTypeKey, then

the receiver will output images in the most efficient possible format given the input. For example, if the source is an iSight producing component Y'CbCr 8-bit 4:2:2 video then Y'CbCr 8-bit 4:2:2 will be used as the output format in order to avoid any conversions.

(Read and Write computed property)

2.17.2 Events

didDropVideoFrame(sampleBuffer as QTKitSampleBufferMBS, connection as QTKitCaptureConnectionMBS)

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Called once for each frame that is dropped when `automaticallyDropsLateVideoFrames` is set to true.

Notes:

`sampleBuffer`: A `QTSampleBuffer` instance containing metadata about the dropped frame, such as its duration and presentation time stamp. This sample buffer will contain none of the original video data, and accessing its `bytesForAllSamples` method is invalid and will throw an exception.

`connection`: The connection from which the dropped video frame was received.

When `automaticallyDropsLateVideoFrames` is set to true, this method is called whenever a late video frame is dropped. This method is called once for each dropped frame. The `QTSampleBuffer` object passed to this delegate method will contain metadata about the dropped video frame, such as its duration and presentation time stamp, but will contain no actual video data. Because this method may be called on the same thread that is responsible for outputting video frames, it must be efficient to prevent further capture performance problems, such as additional dropped video frames.

Mac OS X v10.5 and later; QuickTime 7.6.3.

didOutputVideoFrame(videoFrame as NSImageMBS, sampleBuffer as QTKitSampleBufferMBS, connection as QTKitCaptureConnectionMBS)

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** Called whenever the video preview output outputs a new video frame.

Notes:

`videoFrame`: A Core Video image buffer containing the decompressed frame.

`sampleBuffer`: A sample buffer containing additional information about the frame, such as its presentation time.

connection: The connection from which the video was received.

You receive this event whenever the output decompresses and outputs a new video frame. You can use the provided video frame for a custom preview or for further image processing. In addition, this method is called periodically, so it must be efficient to prevent capture performance problems.

Special Considerations

In order to promptly reclaim memory resources, after this method returns, the sample data contained within the `QTSampleBuffer` object will be released using its `decrementSampleUseCount` method. Clients that reference the sample buffer and are interested in the sample data that it contains after this method returns should call `incrementSampleUseCount` on the sample buffer within this method to ensure that the data remains valid until they no longer need it (at which time they should call `decrementSampleUseCount`). Clients that reference the sample buffer after this method returns, but only need access to its metadata, such as duration, presentation time, and other attributes, need not call `incrementSampleUseCount`.

Note that to maintain optimal performance, some sample buffers directly reference pools of memory that may need to be reused by the device system and other capture inputs. This is frequently the case for uncompressed device native capture where memory blocks are copied as little as possible. If multiple sample buffers reference such pools of memory for too long, inputs will no longer be able to copy new samples into memory and those samples will be dropped. If your application is causing samples to be dropped by holding on to sample data for too long using `incrementSampleUseCount`, but it needs access to the sample data for a long period of time, consider copying the data into a new buffer and then calling `decrementSampleUseCount` on the sample buffer so that the memory it references can be reused.

The plugin calls `incrementSampleUseCount` and `decrementSampleUseCount` for you.

Mac OS X v10.5 and later.

2.18 class `QTKitCaptureConnectionMBS`

class `QTKitCaptureConnectionMBS`

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class represents a connection over which a single stream of media data is sent from a `QTCaptureInput` to a `QTCaptureSession` and from a `QTCaptureSession` to a `QTCaptureOutput`.

Notes: Instances of `QTCaptureConnection` wrap individual media streams that can be provided by `QTCaptureInput` objects and received by `QTCaptureOutput` objects. Connections can have a `QuickTime` media

type, such as `QTMediaTypeVideo` and `QTMediaTypeSound`, and a format description that describes the media sent or received across the connection. Individual connections belonging to an input can be enabled or disabled to restrict what media enters a capture session, while connections belonging to an output can be enabled or disabled to restrict what media enters the output from the capture session. In addition, if a `QTCaptureConnection` wraps a stream of audio media, it provides a number of attributes to control the volume, mix, and enabled channels of the audio passing through it.

2.18.1 Methods

`attributeForKey(key as string)` as variant

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The current value of the connection attribute for key.

Notes:

Use this method to get attributes of a connection. The keys that can be used with this method are described in the Constants section.

Use this method to set attributes of a capture connection. The keys that can be used with this method are described in the Constants section. This method raises an `NSInvalidArgumentException` if the attribute is read-only or not supported by the receiver.

Availability

Mac OS X v10.5 and later; QuickTime 7.2.1.
(Read and Write computed property)

`attributeIsReadOnly(attributeKey as string)` as boolean

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a Boolean value indicating whether the given attribute for the connection cannot be modified.

Notes:

True if the attribute cannot be modified; otherwise, false.

Availability

Mac OS X v10.5 and later; QuickTime 7.2.1.

AudioMasterVolume as double

Plugin Version: 8.7 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The master volume for the audio.

Notes:

A number between 0.0 and 1.0 for normal volume; above 1.0 for boosted gain
(Read and Write computed property)

connectionAttributes as dictionary

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A dictionary of all attributes set for the receiver.

Notes:

Applications can use this method to determine what attributes a specific connection supports.

This method allows application to set multiple attributes on a connection at once. This method raises an `NSInvalidArgumentException` if any of the attributes in the dictionary are read-only or not supported by the receiver.

Availability

Mac OS X v10.5 and later; QuickTime 7.2.1.

(Read and Write computed property)

Enabled as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A Boolean value indicating whether the receiver is enabled.

Notes: (Read and Write computed property)

formatDescription as QTKitFormatDescriptionMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the format description of the receiver.

mediaType as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the QuickTime media type of the receiver.

Notes: This method returns the QuickTime media type, such as QTMediaTypeVideo and QTMediaTypeSound, of the receiver.

owner as variant

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the QTCaptureInputMBS or QTCaptureOutputMBS object that owns the receiver.

Notes:

This method returns the input or output to which the receiver belongs. The returned input or output uses the receiver as a connection for sending or receiving a media stream.

Mac OS X v10.5 and later; QuickTime 7.2.1.

QTCaptureConnectionAttributeDidChangeNotification as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The name of a notification for the connection.

Notes:

Posted when one of the connections attributes has changed.

The notifications user info dictionary will contain the attribute key of the changed attribute for the key QTCaptureConnectionChangedAttributeKey.

Availability

Available in Mac OS X v10.5 and later.

QTCaptureConnectionAttributeWillChangeNotification as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The name of a notification for the connection.

Notes:

Posted when one of the connections attributes is about to change.

The notifications user info dictionary will contain the attribute key of the changed attribute for the key `QTCaptureConnectionChangedAttributeKey`.

Availability

Available in Mac OS X v10.5 and later.

QTCaptureConnectionAudioAveragePowerLevelsAttribute as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute key constants.

Notes:

An array of variants with doubles that correspond to the average power, in decibels, of each audio stream sent through the connection.

Applications that wish to display audio level meters for a specific connection can periodically check the value of this attribute. Average power levels change quickly and appear jumpy on a level meter.

Available in Mac OS X v10.5 and later.

QTCaptureConnectionAudioMasterVolumeAttribute as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute key constants.

Notes:

A double that specifies the master volume of all audio channels sent through the connection.

The values are between 0.0 and 1.0 for normal volume, or greater than 1.0 for boosting the audio gain. This attribute determines the master volumes of all audio channels sent through the connection. Applications that need to set the volumes of individual channels can set the `QTCaptureConnectionAudioVolumesAttribute`

attribute.

You can use the `AudioMasterVolume` property directly for this property.

Available in Mac OS X v10.5 and later.

QTCaptureConnectionAudioPeakHoldLevelsAttribute as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute key constants.

Notes:

An array of variants with doubles that correspond to the peak hold level, in decibels, of each audio channel sent through the connection.

Applications that wish to display audio level meters for a specific connection can periodically check the value of this attribute. Peak hold levels remain at the maximum volume for about a second, and are often useful for displaying audio clipping.

Available in Mac OS X v10.5 and later.

QTCaptureConnectionAudioVolumesAttribute as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute key constants.

Notes:

An array of variants with double values that specify the volumes of audio channels sent through the connection.

The values are between 0.0 and 1.0 for normal volume, or greater than 1.0 for boosting the audio gain. This attribute determines the individual volumes of audio channels sent through the connection. Applications that need to set the master volume of all channels can set the `QTCaptureConnectionAudioMasterVolumeAttribute` attribute.

Available in Mac OS X v10.5 and later.

QTCaptureConnectionChangedAttributeKey as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Used as a key in the user info dictionary passed to `QTCaptureConnectionAttributeWillChangeNotification`, and `QTCaptureConnectionAttributeDidChangeNotification` to indicate the key of that attribute that changed.

Notes:

Availability

Available in Mac OS X v10.5 and later.

QTCaptureConnectionEnabledAudioChannelsAttribute as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute key constants.

Notes:

An `NSIndexSetMBS` that specifies which audio channels should be sent through the connection. The indices in the set should be between 0 and the number of volumes in `QTCaptureConnectionAudioVolumesAttribute`. This attribute allows applications to selectively disable certain audio channels from being sent through the connection. The value of this attribute should be an `NSIndexSet` that contains only the channels that should be used. By default, all audio channels are sent through a connection.

Available in Mac OS X v10.5 and later.

QTCaptureConnectionFormatDescriptionDidChangeNotification as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The name of a notification for the connection.

Notes:

Posted when the format description of a connection has changed.

Applications can be notified of changes to a connections format by registering to receive this notification.

Availability

Available in Mac OS X v10.5 and later.

QTCaptureConnectionFormatDescriptionWillChangeNotification as string

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The name of a notification for the connection.

Notes:

Posted when the format description of a connection is about to change.

Applications can be notified of changes to a connections format by registering to receive this notification.

Availability

Available in Mac OS X v10.5 and later.

2.18.2 Properties**Handle as Integer**

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the QTCaptureConnection object.

Notes: (Read and Write property)

2.19 class QTKitCaptureAudioPreviewOutputMBS**class QTKitCaptureAudioPreviewOutputMBS**

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class represents an output destination for QTCaptureSession that can be used to preview the audio being captured.

Notes:

Instances of QTCaptureAudioPreviewOutput have an associated Core Audio output device that can be used to play audio being captured by the capture session. Note that the unique ID of a Core Audio device can be obtained from its kAudioDevicePropertyDeviceUID property.

Subclass of the QTKitCaptureOutputMBS class.

2.19.1 Methods

Constructor

Plugin Version: 10.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new preview output object.

outputDeviceUniqueID as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The unique ID of the Core Audio output device being used to play preview audio.

Notes:

Zero if the default system output device is being used.
(Read and Write computed property)

volume as double

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The preview volume of the output.

Notes:

1.0 is the maximum volume and 0.0 is muted.
(Read and Write computed property)

2.20 class QTKitCaptureInputMBS

class QTKitCaptureInputMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class provides input source connections for a QTCaptureSession.

Notes: QTCaptureInput is an abstract class that provides an interface for connecting capture input sources, such as cameras, to a QTCaptureSession. An input source can have multiple connections. For instance, many cameras output both audio and video streams. Each connection owned by a QTCaptureInput instance is

described by a QTCaptureConnection.

2.20.1 Methods

connections as QTKitCaptureConnectionMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of connections owned by the receiver.

Notes: For each connection owned by the receiver, this method returns a QTKitCaptureConnectionMBS object describing the media type, format, and other attributes of the connection.

Constructor(device as QTKitCaptureDeviceMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new capture input object linking to the given device.

Notes: On success the handle property is not zero.

device as QTKitCaptureDeviceMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The device for this input.

2.20.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the QTCaptureInput object.

Notes: (Read and Write property)

2.21 class QTKitCaptureOutputMBS

class QTKitCaptureOutputMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** QTCaptureOutput is an abstract class that provides an interface for connecting capture output destinations, such as QuickTime files and video previews, to a QTCaptureSession.

Notes: Like a QTCaptureInput, a QTCaptureOutput can have multiple connections represented by QTCaptureConnection objects, one for each stream of media that it receives. Unlike a QTCaptureInput however, a QTCaptureOutput does not have any connections when it is first created. When an output is added to a QTCaptureSession, it creates connections as appropriate so that the session has a destination for all of its input media.

2.21.1 Methods

connections as QTKitCaptureConnectionMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of connections owned by the receiver that are currently connected to a capture session.

Notes:

This class creates a new output connection for each input connection of a matching media type connected to the capture session. The connections method returns an array of connections owned by the receiver that are currently connected to the capture sessions input connections.

Mac OS X v10.5 and later.

2.21.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the QTCaptureOutput object.

Notes: (Read and Write property)

2.22 class QTKitCaptureMovieFileOutputMBS

class QTKitCaptureMovieFileOutputMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class represents an output destination for QTCaptureSession that writes captured media to QuickTime movie files.

Notes:

A QTKitCaptureMovieFileOutputMBS instance writes the media captured by its connected capture session to QuickTime movie files. The methods implemented by this class are described in the QTKitCaptureFileOutputMBS Reference.

Subclass of the QTKitCaptureFileOutputMBS class.

2.22.1 Methods

Constructor

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor to create a new movie file output.

2.23 class QTKitCaptureViewMBS

class QTKitCaptureViewMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This is a subclass of NSView that displays a video preview of a capture session.

Notes:

A QTCaptureView previews the video being processed by an instance of QTCaptureSession. This class creates and maintains its own QTCaptureVideoPreviewOutput as necessary to gather preview video from the capture session.

You can embed this view in a CustomNSViewMBS to get more events for mouse and keyboard.

Subclass of the NSViewMBS class.

2.23.1 Methods

available as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether the QTCaptureView class is available.

Example:

```
if QTKitCaptureViewMBS.available then
  MsgBox "OK"
else
  MsgBox "Please upgrade Mac OS X."
end if
```

availableVideoPreviewConnections as QTKitCaptureConnectionMBS()

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the available video preview connections.

captureSession as QTKitCaptureSessionMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The capture session being previewed by the receiver.

Notes: (Read and Write computed property)

Constructor

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new QTKit capture view with size 100/100 and position 0/0

Example:

```
dim t as new QTKitCaptureViewMBS
```

Notes: On success the handle property is not zero.

2.23. CLASS QTKITCAPTUREVIEWMBS 233

See also:

- 2.23.1 Constructor(Handle as Ptr) 233
- 2.23.1 Constructor(left as double, top as double, width as double, height as double) 233

Constructor(Handle as Ptr)

Plugin Version: 10.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates an object based on the given QTKitCaptureView handle.

Example:

```
dim t as new QTKitCaptureViewMBS(0, 0, 100, 100)
dim v as new QTKitCaptureViewMBS(t.handle)
```

```
MsgBox str(v.Bounds.Width)+" x "+str(v.Bounds.Height)
```

Notes: The handle is casted to a QTKitCaptureView and the plugin retains this handle.

See also:

- 2.23.1 Constructor 232
- 2.23.1 Constructor(left as double, top as double, width as double, height as double) 233

Constructor(left as double, top as double, width as double, height as double)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a new QTKit capture view with the given size and position.

Example:

```
dim x as new QTKitCaptureViewMBS(0, 0, 100, 100)
```

Notes: On success the handle property is not zero.

See also:

- 2.23.1 Constructor 232
- 2.23.1 Constructor(Handle as Ptr) 233

Destructor

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The destructor.

fillColor as NSColorMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The fill color drawn in the area of the view not covered by the video preview.

Notes: (Read and Write computed property)

preservesAspectRatio as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether the receiver preserves the aspect ratio of the video preview when drawing it.

Notes:

True if the video preview aspect ratio is preserved; otherwise, false.
(Read and Write computed property)

previewBounds as NSRectMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The rectangle occupied by the video preview in the view.

videoPreviewConnection as QTKitCaptureConnectionMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The output connection being previewed by the receiver.

Notes:

A QTCaptureView can preview only one video connection at a time. This method returns the output connection currently being previewed by the receiver.
(Read and Write computed property)

2.23.2 Events

willDisplayImage(image as variant) as variant

Plugin Version: 11.2 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** You can implement this event to modify the image that is to be drawn into a QTCaptureView.

Notes:

Image: A CIIImageMBS object that represents the frame that will otherwise be drawn to the QTCaptureView.

Return a CIIImageMBS object to be drawn by the capture view, or nil if the capture view should draw the original image.

The image parameter is a CIIImageMBS representing the captured frame that is about to be drawn into a QTCaptureView. The delegate can return another image that modifies the source image (by applying a CIFilterMBS, for example). The returned image will then be drawn into the capture view instead of the source image. The delegate can also return nil or the original image to leave the drawn image unmodified.

Mac OS X v10.5 and later.

2.24 class QTKitCaptureVideoPreviewOutputMBS

class QTKitCaptureVideoPreviewOutputMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class represents an output destination for QTCaptureSession that can be used to preview the video being captured.

Notes:

Instances of QTCaptureVideoPreviewOutput produce decompressed video frames suitable for preview. Because the output video is intended for preview only, instances may drop frames or reduce output quality in order to improve overall performance of the capture session. Applications that need to process full-quality frames without dropping them should use QTCaptureDecompressedVideoOutput instead. Applications can access the decompressed frames from a QuickTime visual context for each output connection, or via the captureOutput:didOutputVideoFrame:withSampleBuffer:fromConnection: delegate method. In addition, clients can create subclasses of QTCaptureVideoPreviewOutput to add custom capturing behavior. Application Kit clients wishing to preview video do not normally need to use QTCaptureVideoPreviewOutput instances directly, as they are created and managed by instances of QTCaptureView. Clients should use QTCaptureVideoPreviewOutput directly only when they require preview functionality not provided by QT-

CaptureView or when they need to process decompressed frames directly.
Subclass of the QTKitCaptureOutputMBS class.

2.24.1 Methods

pixelBufferAttributes as dictionary

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The CoreVideo pixel buffer attributes that determine what kind of pixel buffers are output by the receiver.

Notes:

This method sets the pixel buffer attributes that clients can use to customize the size and pixel format of the video frames output by the receiver. When the dictionary is non-nil, the receiver will attempt to output pixel buffers using the attributes specified in the dictionary. A non-nil dictionary also guarantees that the output CVMImageBuffer is a CVPixelBuffer. When the value for kCVPixelBufferPixelFormatTypeKey is set to a number, all image buffers output by the receiver will be in that format. When the value is an Array, image buffers output by the receiver will be in the most optimal format specified in that array. If the captured images are not in the one of the specified pixel formats, then a format conversion will be performed. If the dictionary is NIL or there is no value for the kCVPixelBufferPixelFormatTypeKey, then the receiver will output images in the most efficient possible format given the input. For example, if the source is an iSight producing component Y'CbCr 8-bit 4:2:2 video then Y'CbCr 8-bit 4:2:2 will be used as the output format in order to avoid any conversions.

Available in Mac OS X v10.5 and later.
(Read and Write computed property)

2.25 class QTKitCaptureSessionMBS

class QTKitCaptureSessionMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This class is the primary interface for capturing media streams.

Notes: A QTCaptureSession instance provides an interface for connecting capture input sources, subclasses QTCaptureInput to output destinations and subclasses of QTCaptureOutput. In addition to managing the connections between inputs and outputs, instances of QTCaptureSession also manage when a capture is running.

2.25.1 Methods

addInput(captureInput as QTKitCaptureInputMBS, byref error as NSErrorMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds an input to the receiver.

Notes:

error:

After the method returns, if this parameter is not equal to nil, it points to an error describing why the input could not be added, or points to nil if the input was added successfully.

Return Value:

Returns true if the input was added successfully, or has already been added to the receiver. Returns false if the input could not be added.

Discussion:

This method adds a QTKaptureInput to the receivers list of inputs, adding each of its connections to the capture session as media sources. If there are any outputs already added to the receiver after an input is successfully added, each output creates an additional QTKaptureConnection for each stream of media that it can read from the session and adds it to the list returned by its connections method. If an input is added successfully, it is retained by the receiver and this method returns true. If an input is added more than once, this method does nothing and returns true. If an input cannot be added, this method returns false and returns an NSError in the location pointed to by error. The same input cannot be added to more than one capture session. If a client tries to add an input that has already been added to another session, the method throws an NSInvalidArgumentException.

Availability: Mac OS X v10.5 and later.

addOutput(captureOutput as QTKitCaptureOutputMBS, byref error as NSErrorMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Adds an output to the receiver.

Notes:

Return Value

Returns true if the output was added successfully, or has already been added to the receiver. Returns false if the output could not be added.

Discussion

This method adds a `QTCaptureOutput` to the receivers list of outputs. After an output is successfully added to a session, it creates one `QTCaptureConnection` for each stream of media that it can read from the session and adds it to the list returned by its `connections` method. If an input is added successfully, it is retained by the receiver and this method returns `true`. If an output is added more than once, this method does nothing and returns `true`. If an output cannot be added, this method returns `false` and returns an `NSError` in the location pointed to by `errorPtr`. The same output cannot be added to more than one capture session. If a client tries to add an output that has already been added to another session, the method throws an `NSInvalidArgumentException`.

Availability

Mac OS X v10.5 and later.

Constructor

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor to create a new session.

Notes: On success the handle property is not zero.

inputs as `QTKitCaptureInputMBS()`

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of inputs connected to the receiver.

Notes: A capture session can have one or more input sources, which are instances of `QTKitCaptureInputMBS`.

isRunning as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns whether the receiver is running.

Notes:

Returns `true` if the receiver is running. `false` otherwise.

When a `QTCaptureSession` is running, it continuously reads media from its inputs and sends it to those outputs currently accepting data. When data does not need to be sent to file outputs, previews, and other outputs, capture sessions should not be running so that the overhead from capturing not affect application performance. By default, capture sessions are not running.

outputs as `QTKitCaptureOutputMBS()`

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns an array of outputs connected to the receiver.

Notes:

A capture session can have one or more output destinations, which are instances of `QTKitCaptureOutputMBS`.

Mac OS X v10.5 and later.

`QTCaptureSessionErrorKey` as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with the `NSNotificationObserverMBS` class.

Notes:

Used as a notification key in the user info dictionary passed to `QTCaptureSessionRuntimeErrorNotification` to indicate the error responsible for the notification. The value is an `NSError`.

QuickTime 7.2.1 and later.

`QTCaptureSessionRuntimeErrorNotification` as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the notification names you can use with the `NSNotificationObserverMBS` class.

Notes:

Posted when an error occurs that while a capture session is running prevents input media from being previewed or captured. The notification user info dictionary `QTCaptureSessionErrorKey` entry contains an `NSError` object that describes the error that prevented the session from running properly. Normally, such errors are caused by an invalid configuration of inputs and outputs.

QuickTime 7.2.1 and later.

removeInput(captureInput as QTKitCaptureInputMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Removes an input from the receiver.

Notes: This method removes a QTCaptureInput added with addInput and releases it.

removeOutput(captureOutput as QTKitCaptureOutputMBS)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Removes an output from the receiver.

Notes: This method removes a QTCaptureOutput instance previously added using addOutput and releases it.

startRunning

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Tells the receiver to start capturing data from its inputs and sending data to its outputs.

Notes: When a QTCaptureSession is running, it continuously reads media from its inputs and sends it to those outputs currently accepting data. When data does not need to be sent to file outputs, previews, and other outputs, the capture session should not be running so that the overhead from capturing does not affect application performance. By default, capture sessions are not running.

stopRunning

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Tells the receiver to stop capturing data from its inputs and sending data to its outputs.

Notes: When a QTCaptureSession is running, it continuously reads media from its inputs and sends it to those outputs currently accepting data. When data does not need to be sent to file outputs, previews, and other outputs, the capture session should not be running so that the overhead from capturing does not affect application performance. By default, capture sessions are not running.

2.25.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference to the QTcaptureSession object.

Notes: (Read and Write property)

2.26 class QTKitCaptureFileOutputMBS

class QTKitCaptureFileOutputMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** This is an abstract superclass output destination for QTKitCaptureSessionMBS that writes captured media to files.

Notes:

This superclass defines the interface for outputs that record media samples to files. File outputs are designated a recording output file using the recordToFileURL method. On successive invocations of these methods, the output file can be changed dynamically without losing media samples. A file output can also be set to not record incoming frames (the default behavior when an output is first initialized) by passing NIL as the output file URL. Because files are recorded in the background, applications will generally need to set a delegate for a file output so that they can be notified when recorded files are started and finished. Currently, the only concrete subclass of this class is QTcaptureMovieFileOutput.

Subclass of the QTKitCaptureOutputMBS class.

2.26.1 Methods

CompressionOptions(connection as QTKitCaptureConnectionMBS) as QTKitCompressionOptionsMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The options the receiver uses to compress media on the given connection as it is being captured.

Notes:

This method sets/gets the options for compressing media as it is being captured. If compression cannot be performed in real time, the receiver will drop frames in order to remain synchronized with the session. If the receiver does not recompress the output media, this method should be passed nil. The default value is nil.

(Read and Write computed property)

Constructor

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The constructor to create a new object.

file as folderitem

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The file data is written to.

isRecordingPaused as boolean

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns whether recording to the current output file is paused.

Notes:

This method returns whether recording to the file returned by `outputFileURL` has been previously paused using the `pauseRecording` method.

When a recording is paused, captured samples are not written to the output file, but new samples can be written to the same file in the future by calling `resumeRecording`.

Returns true if recording to the current output file is paused and returns false otherwise.

maximumRecordedDuration as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The maximum duration of the media that should be recorded by the receiver.

Notes:

This method sets a soft limit on the duration of recorded files. Delegates can determine what to do when the limit is reached by implementing the `shouldChangeOutputFile()` event. By default, the current output file is set to NIL when the limit is reached.

(Read and Write computed property)

maximumRecordedFileSize as int64

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The maximum file size, in bytes, of the file that should be recorded by the receiver.

Notes:

This method sets a soft limit on the size of recorded files. Delegates can determine what to do when the limit is reached by implementing the `shouldChangeOutputFile()` event. By default, the current output file is set to NIL when the limit is reached.

(Read and Write computed property)

MaximumVideoSize as NSSizeMBS

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The maximum dimensions within which the receiver will record video.

Notes:

When a size is set, all video recorded by the receiver will be no larger than the specified size, while still preserving the original aspect ratio of the content. A value of `NSZeroSize` indicates that there should be no limit. If this is set to a value other than `NSZeroSize`, device native compressed video, such as DV video, will be decompressed so that it can be resized. By default, there is no limit on the maximum recorded video size. QuickTime 7.6.3 or later.

(Read and Write computed property)

minimumVideoFrameInterval as double

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The minimum time interval between which the receiver will record consecutive video frames.

Notes:

An double specifying the minimum interval between video frames. A value of 0 indicates that there should be no frame rate limit.

(Read and Write computed property)

pauseRecording

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Pauses recording to the current output file.

Notes: This method causes the receiver to stop writing captured samples to the current output file returned by `outputFileURL`, but leaves the file open so that samples can be written to it in the future, when `resumeRecording` is called. This allows clients to record multiple media segments that are not contiguous in time to a single file.

recordedDuration as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the duration of the media recorded by the receiver.

Notes: If recording is in progress, this method returns the total time recorded so far. Otherwise, this method returns the time recorded in the most recent recording.

recordedFileSize as int64

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the size, in bytes, of the data recorded by the receiver to output files.

Notes: If a recording is in progress, this method returns the size in bytes of the data recorded so far. Otherwise, this method returns the size in the most recent recording.

recordToOutputFile(file as folderitem)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Records to the given file.

See also:

- 2.26.1 `recordToOutputFile(file as folderitem, WriteExisingBuffersToOldFile as boolean)` 244

recordToOutputFile(file as folderitem, WriteExisingBuffersToOldFile as boolean)

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the file written to by the receiver, specifying where the sample buffer currently in flight should be recorded.

Notes:

file: The file to write data to.

bufferDestination: A buffer destination specifying which file should contain the buffer currently in flight.

The method sets the file URL to which the receiver is currently writing output media. If a file at the given URL already exists when capturing starts, the existing file will be overwritten. If NIL is passed as the file URL, the receiver will stop recording to any file. If this method is invoked while an existing output file was already being recorded, no media samples will be discarded between the old file and the new file. Applications can specify where the sample buffer currently in flight will be recorded using the bufferDestination argument. When the new file is set, applications will not be able to open the old file until it has finished recording in the background. Delegates should implement the didFinishRecordingToOutputFileAtURL event to be notified when the file is ready to be opened.

constants;

QTCaptureFileOutputBufferDestinationNewFile (0) tells the output to include the buffer currently in flight in the old file.

QTCaptureFileOutputBufferDestinationOldFile (1) tells the output to include the buffer currently in flight in the new file.

See also:

- 2.26.1 recordToOutputFile(file as folderitem)

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resumeRecording

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Resumes recording to the current output file after it was previously paused using pauseRecording.

Notes:

This method causes the receiver to resume writing captured samples to the current output file returned by outputFileURL, after recording was previously paused using pauseRecording. This allows clients to record multiple media segments that are not contiguous in time to a single file. When there is no current output file, or when recording is not paused, this method does nothing.

Requires QuickTime 7.6.3.

setMaximumVideoSize(width as double, height as double)

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Sets the maximum dimensions within which the receiver should record video.

Notes:

This method sets the maximum limit on the dimensions of video that the receiver records to a file. When a size is set, all video recorded by the receiver will be no larger than the specified size, while still preserving the original aspect ratio of the content. A value of `NSZeroSize` indicates that there should be no limit. If this is set to a value other than `NSZeroSize`, device native compressed video, such as DV video, will be decompressed so that it can be resized. By default, there is no limit on the maximum recorded video size. QuickTime 7.6.3 or later.

2.26.2 Events**didFinishRecordingToOutputFileAtURL(fileURL as string, file as folderitem, connections() as QTKitCaptureConnectionMBS, error as NSErrorMBS)**

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** This event is called whenever a file is finished successfully.

Notes:

If the file was forced to be finished due to an error (including errors that resulted in either of the above two methods being called), the error is described in the error parameter. Otherwise, the error parameter equals `nil`.

If this method is called on an other thread than the main thread, the plugin will schedule the event to be called on the main thread. But this way the event is called a few milliseconds later.

didOutputSampleBuffer(sampleBuffer as QTKitSampleBufferMBS, connection as QTKitCaptureConnectionMBS)

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** This event is called every time the recorder output receives a new sample buffer.

Notes:

When called within this method, `recordToOutputFileURL`, are all guaranteed to occur on the given sample buffer. Since this method is called frequently, it must be efficient.

If this method is called on an other thread than the main thread, the plugin will schedule the event to be called on the main thread. But this way the event is called a few milliseconds later.

didPauseRecordingToOutputFileAtURL(fileURL as string, file as folderitem, connections() as QTKitCaptureConnectionMBS, error as NSErrorMBS)

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** This event is called whenever the output is recording to a file and successfully pauses the recording at the request of the client.

Notes:

Delegates can use this method to be informed when a request to pause recording is actually respected. It is safe for delegates to change what the file output is currently doing (starting a new file for example) from within this method. Clients should not assume that this method will be called on the main thread, and should also try to make this method as efficient as possible. If recording to a file is stopped, either manually or due to an error, this method is not guaranteed to be called, even if a previous call to `pauseRecording` was made.

`fileURL`: The file URL of the file that is being written.

`file`: The file that is being written.

`connections`: An array of `QTCaptureConnection` objects owned by the file output that provided the data that is being written to the file.

If this method is called on an other thread than the main thread, the plugin will schedule the event to be called on the main thread. But this way the event is called a few milliseconds later.

didResumeRecordingToOutputFileAtURL(fileURL as string, file as folderitem, connections() as QTKitCaptureConnectionMBS, error as NSErrorMBS)

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** This event is called whenever the output, at the request of the client, successfully resumes a file recording that was paused.

Notes:

Delegates can use this method to be informed when a request to resume a paused recording is actually respected. It is safe for delegates to change what the file output is currently doing (starting a new file for example) from within this method. Clients should not assume that this method will be called on the main thread, and should also try to make this method as efficient as possible. If recording to a file is stopped, either manually or due to an error, this method is not guaranteed to be called, even if a previous call to

resumeRecording was made.

fileURL: The file URL of the file that is being written.

Connections: An array of QTCaptureConnection objects owned by the file output that provided the data that is being written to the file.

If this method is called on an other thread than the main thread, the plugin will schedule the event to be called on the main thread. But this way the event is called a few milliseconds later.

didStartRecordingToOutputFileAtURL(fileURL as string, file as folderitem, connections() as QTKitCaptureConnectionMBS)

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** These event is called when the output starts recording to a new file.

Notes: If this method is called on an other thread than the main thread, the plugin will schedule the event to be called on the main thread. But this way the event is called a few milliseconds later.

mustChangeOutputFileAtURL(fileURL as string, file as folderitem, connections() as QTKit-CaptureConnectionMBS, error as NSErrorMBS)

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** This event is called when the file writer reaches a hard limit, such as space running out on the current disk, or the stream format of the incoming media changing.

Notes:

If the delegate does nothing, the current output file will be set to nil. If the delegate sets a new output file (on a different disk in the case of hitting a disk space limit) recording will continue on the new file.

If this method is called on an other thread than the main thread, the plugin will schedule the event to be called on the main thread. But this way the event is called a few milliseconds later.

shouldChangeOutputFileAtURL(fileURL as string, file as folderitem, connections() as QTKitCaptureConnectionMBS, error as NSErrorMBS) as boolean

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** This event is called when the file recorder reaches a soft limit, i.e. the set maximum file size or duration.

Notes:

If the delegate returns false, the file writer will continue writing the same file. If the event returns true and doesn't set a new output file, mustChangeOutputFileAtURL will be called. If the delegate returns true and sets a new output file, recording will continue on the new file.

If this method is called on an other thread than the main thread, the plugin will schedule the event to be called on the main thread. But this way the event is called a few milliseconds later.

willFinishRecordingToOutputFileAtURL(fileURL as string, file as folderitem, connections() as QTKitCaptureConnectionMBS, error as NSErrorMBS)

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** This event is called whenever a file will be finished, either because recordToFile was called or an error forced the file to be finished.

Notes:

If the file was forced to be finished due to an error, the error is described in the error parameter. Otherwise, the error parameter equals nil.

If this method is called on an other thread than the main thread, the plugin will schedule the event to be called on the main thread. But this way the event is called a few milliseconds later.

willStartRecordingToOutputFileAtURL(fileURL as string, file as folderitem, connections() as QTKitCaptureConnectionMBS)

Plugin Version: 11.0 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** These event is called when the output starts recording to a new file.

Notes: If this method is called on an other thread than the main thread, the plugin will schedule the event to be called on the main thread. But this way the event is called a few milliseconds later.

2.27 class QTKitMediaMBS

class QTKitMediaMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The QTKitMediaMBS class represents a QuickTime media (of type Media).

Notes: QTKitMediaMBS objects are associated with QTKitTrackMBS objects and support methods for getting and setting the media properties. If necessary, you can retrieve the media identifier associated with a QTKitMediaMBS object by calling its quickTimeMedia method. Note that a track has a single media.

2.27.1 Methods

attributeForKey(key as string) as variant

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The value of an attribute of a QTKitMediaMBS object.

Notes: (Read and Write computed property)

CanSendVideo as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media can send visual data to another track.

CanStep as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media can step.

CreationTime as date

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The creation time of a QTKitMediaMBS object.

Notes: (Read and Write computed property)

Duration as QTKitTimeMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The duration of a QTKitMediaMBS object.

Notes: (Read and Write computed property)

hasCharacteristic(key as string) as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Indicates whether a QTKitMediaMBS object has a specified characteristic.

Notes:

key: A string that specifies the characteristic to be read; pass strings like QTMediaCharacteristicVisual or QTMediaCharacteristicAudio.

Returns true if the QTKitMediaMBS object has the specified characteristic, false otherwise.

This method can be called when the movie containing this media has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.3 and later.

HasNoDuration as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media has no duration.

HasSkinData as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media has skin data.

HasVideoFrameRate as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media has a video frame rate.

IsAudio as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media has audio data.

IsNonLinear as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media is non-linear.

IsVisual as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media has video data.

mediaAttributes as dictionary

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A dictionary containing the current values of all public attributes of a QTKitMediaMBS object.
Notes: (Read and Write computed property)

MediaHandle as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the QuickTime media associated with a QTKitMediaMBS object.
Notes:

Available in Mac OS X v10.3 and later.
Not available to 64-bit applications.

mediaWithQuickTimeMedia(MediaHandle as integer, byref error as NSErrorMBS) as QTKitMediaMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a QTKitMediaMBS object associated with a QuickTime Media.

Notes:

MediaHandle: The QuickTime media data handle with which to initialize the media object.
error: On return, if the media object could not be created, an error indicating the reason for the failure.

Returns the newly created media object.

This method cannot be called when the movie containing this media has been initialized with QTMovieOpenForPlaybackAttribute set to true. In addition, this method cannot be called by 64-bit applications.

Available in Mac OS X v10.3 and later.
Not available to 64-bit applications.

Make sure the media is not disposed while you still use it.

ModificationTime as date

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The modification time of a QTKitMediaMBS object.

Notes: (Read and Write computed property)

ProvidesActions as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media has actions.

ProvidesKeyFocus as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Key events can be focused at the media.

QTMediaCharacteristicAudio as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

The media has audio data.
Available in Mac OS X v10.4 and later.

QTMediaCharacteristicCanSendVideo as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

The media can send visual data to another track.
Available in Mac OS X v10.4 and later.

QTMediaCharacteristicCanStep as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

The media can step.
Available in Mac OS X v10.4 and later.

QTMediaCharacteristicHasNoDuration as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

The media has no duration.
Available in Mac OS X v10.4 and later.

QTMediaCharacteristicHasSkinData as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

The media has skin data.
Available in Mac OS X v10.4 and later.

QTMediaCharacteristicHasVideoFrameRate as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

The media has a video frame rate.
Available in Mac OS X v10.4 and later.

QTMediaCharacteristicNonLinear as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

The media is non-linear.
Available in Mac OS X v10.4 and later.

QTMediaCharacteristicProvidesActions as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

The media has actions.

Available in Mac OS X v10.4 and later.

QTMediaCharacteristicProvidesKeyFocus as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

Key events can be focused at the media.

Available in Mac OS X v10.4 and later.

QTMediaCharacteristicVisual as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media characteristics keys used with hasCharacteristic.

Notes:

The media has visual data.

Available in Mac OS X v10.4 and later.

QTMediaCreationTimeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute keys.

Notes:

The creation time. The value for this key is of type Date.

This attribute can be read but not written. This attribute can be read but not written when the movie containing this media has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMediaDurationAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute keys.

Notes:

The duration. The value for this key is of type is a QTTime.

This attribute can be read but not written. This attribute can be read but not written when the movie containing this media has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMediaModificationTimeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute keys.

Notes:

The modification time. The value for this key is of type Date.

This attribute can be read but not written. This attribute can be read but not written when the movie containing this media has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMediaQualityAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute keys.

Notes:

The media quality. The value for this key is of type short.

This attribute can be read but not written. This attribute can be read but not written when the movie containing this media has been initialized with QTMovieOpenForPlaybackAttribute set to true.

Available in Mac OS X v10.4 and later.

QTMediaSampleCountAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute keys.

Notes:

The media sample count. The value for this key is of type long.

This attribute can be read but not written. This attribute can be read but not written when the movie containing this media has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.

Available in Mac OS X v10.4 and later.

QTMediaTimeScaleAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute keys.

Notes:

The media time scale. The value for this key is of type integer.

This attribute can be read but not written. This attribute can be read but not written when the movie containing this media has been initialized with `QTMovieOpenForPlaybackAttribute` set to true.

Available in Mac OS X v10.4 and later.

QTMediaType3D as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a QuickDraw 3D track.

Available in Mac OS X v10.4 and later.

QTMediaTypeAttribute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the attribute keys..

Notes:

The media type.

This attribute can be read but not written. This attribute can be read but not written when the movie containing this media has been initialized with `QTMovieOpenForPlaybackAttribute` set to true. Available in Mac OS X v10.4 and later.

QTMediaTypeBase as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a base track.
Available in Mac OS X v10.4 and later.

QTMediaTypeClosedCaption as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a closed caption track.
Mac OS X v10.6 and QuickTime 7.6.3 and later.

QTMediaTypeFlash as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a flash track.
Available in Mac OS X v10.4 and later.

QTMediaTypeHint as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a hint track.
Available in Mac OS X v10.4 and later.

QTMediaTypeMovie as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a movie track.
Available in Mac OS X v10.4 and later.

QTMediaTypeMPEG as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a MPEG track.
Available in Mac OS X v10.4 and later.

QTMediaTypeMusic as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a music track.
Available in Mac OS X v10.4 and later.

QTMediaTypeMuxed as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a multiplexed audio and video track.
Available in Mac OS X v10.5 and later.

QTMediaTypeQTVR as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a QuickTime VR track.
Available in Mac OS X v10.4 and later.

QTMediaTypeQuartzComposer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a Quartz Composer track.
Available in Mac OS X v10.5 and later.

QTMediaTypeSkin as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a skin track
Available in Mac OS X v10.4 and later.

QTMediaTypeSound as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a sound track.
Available in Mac OS X v10.4 and later.

QTMediaTypeSprite as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a sprite track.
Available in Mac OS X v10.4 and later.

QTMediaTypeStream as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a stream track.
Available in Mac OS X v10.4 and later.

QTMediaTypeSubtitle as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a subtitle track.
Mac OS X v10.6 and QuickTime 7.6.3 and later.

QTMediaTypeText as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a text track.
Available in Mac OS X v10.4 and later.

QTMediaTypeTimeCode as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a timecode track.
Available in Mac OS X v10.4 and later.

QTMediaTypeTween as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a tween track.
Available in Mac OS X v10.4 and later.

QTMediaTypeVideo as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the media type constants.

Notes:

The media type of a video track.
Available in Mac OS X v10.4 and later.

Quality as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media quality.
Notes: (Read and Write computed property)

SampleCount as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media sample count.
Notes: (Read and Write computed property)

TimeScale as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media time scale.
Notes: (Read and Write computed property)

track as QTKitTrackMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the QTKitTrackMBS that contains a QTKitMediaMBS object.

Type as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The media type.
Notes: (Read and Write computed property)

2.27.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the QTKitMediaMBS object.

Notes: (Read and Write property)

2.27.3 Constants

kType3D = "qd3d"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: 3D media.

kTypeBase = "gnrc"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Base media.

kTypeClosedCaption = "clcp"

Plugin Version: 9.6 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

kTypeFlash = "flsh"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Flash media.

kTypeHint = "hint"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Hint media.

kTypeMovie = "moov"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Movie media.

kTypeMPEG = "MPEG"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: MPEG media

kTypeMusic = "musi"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Music media

kTypeMuxed = "muxx"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

kTypeQTVR = "qtvr"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: QuickTime VR media.

kTypeQuartzComposer = "qtz "

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

kTypeSkin = "skin"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Skin media

kTypeSound = "soun"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Sound media.

kTypeSprite = "sprt"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Sprite media.

kTypeStream = "strm"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Stream media.

kTypeSubtitle = "sbtl"

Plugin Version: 9.6 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Subtitle media

kTypeText = "text"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Text media.

kTypeTimeCode = "tmcd"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

kTypeTween = "twen"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Tween media.

kTypeVideo = "vide"

Plugin Version: 8.4 Console & Web: No Mac: Yes, Win: No, Linux: No, . **Function:** One of the constants for a media type value.

Notes: Video media.

2.28 class QTKitFormatDescriptionMBS

class QTKitFormatDescriptionMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** QTFormatDescription objects are used to describe the media format of media samples and of media sources, such as devices and capture connections.

Notes: Format descriptions include basic information about the media, such as media type and format type (or codec type), as well as extended information specific to each media type.

2.28.1 Methods

attributeForKey(key as string) as variant

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the current value of the format description attribute for the given key.

Notes: Mac OS X v10.5 and later.

formatDescriptionAttributes as dictionary

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a dictionary of all attributes set for the receiver.

Notes:

Applications can use this method to determine what attributes a specific format description supports. Available in Mac OS X v10.5 and later.

formatType as integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the format type of the described media.

Notes: This method returns the specific format, or codec, used to represent the media. Video format types are defined in QuickTime/ImageCompression.h and audio format types are defined in CoreAudio/CoreAudioTypes.h.

isEqual(other as QTKitFormatDescriptionMBS) as boolean

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns whether the receiver describes the same format as the given format description.

localizedFormatSummary as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns a localized summary of the media format.

mediaType as string

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Returns the media type of the described media.

QTFormatDescriptionAudioChannelLayoutAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Returns an NSData interpreted as a Core Audio AudioChannelLayout for audio media. This string value can be used in key paths for key-value coding, key-value observing, and bindings. QuickTime 7.2 and later.

QTFormatDescriptionAudioMagicCookieAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Returns an NSData interpreted as a Core Audio magic cookie for audio media.
This string value can be used in key paths for key-value coding, key-value observing, and bindings.
QuickTime 7.2 and later.

QTFormatDescriptionAudioStreamBasicDescriptionAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Returns an NSValue interpreted as a Core Audio AudioStreamBasicDescription for audio media.
This string value can be used in key paths for key-value coding, key-value observing, and bindings.
QuickTime 7.2 and later.

QTFormatDescriptionVideoCleanApertureDisplaySizeAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Returns an NSValue interpreted as an NSSize that indicates the size of video media displayed through its clean aperture and scaled by its pixel aspect ratio.
This string value can be used in key paths for key-value coding, key-value observing, and bindings.
QuickTime 7.2 and later.

QTFormatDescriptionVideoEncodedPixelsSizeAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Returns an `NSValue` interpreted as an `NSSize` that indicates the encoded size of video media. This string value can be used in key paths for key-value coding, key-value observing, and bindings. QuickTime 7.2 and later.

QTFormatDescriptionVideoProductionApertureDisplaySizeAttribute as string

Plugin Version: 11.0 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the keys for the attributes dictionary.

Notes:

Returns an `NSValue` interpreted as an `NSSize` that indicates the size of video media scaled by its pixel aspect ratio but not displayed through its clean aperture. This string value can be used in key paths for key-value coding, key-value observing, and bindings. QuickTime 7.2 and later.

quickTimeSampleDescription as Memoryblock

Plugin Version: 9.6 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Contains a QuickTime `SampleDescription` structure.

2.28.2 Properties

Handle as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference used for the `QTFormatDescription` object.

Notes: (Read and Write property)

2.29 class QTKitMetadataItemMBS

class QTKitMetadataItemMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** QTMetadataItem represents an item of metadata associated with a QTKitMovieMBS or QTKitTrackMBS object.

Notes:

Please also check the documentation from Apple for the QTKitMetadataItem class.
Available on Mac OS X 10.7.

QTMetadataItem objects have keys that accord with the specification of the container format from which they're drawn.

You can filter arrays of QTMetadataItem objects by locale or by key and keyspace via the metadataItemsFromArray* methods.

2.29.1 Methods

available as boolean

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Whether this class is available.

Example:

```
msgbox "QTKitMetadataItem available: "+str(QTKitMetadataItemMBS.available)
```

Notes: Returns true on Mac OS X 10.7.

Constructor

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The private constructor.

copy as QTKitMetadataItemMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Creates a copy of the object.

dataValue as Memoryblock

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Provides the raw bytes of the value of the metadata item.

dateValue as date

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Provides the value of the metadata item as a Date.

Notes: If the metadata item's value can't be coerced to a date, dateValue will be nil.

extraAttributes as dictionary

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** A dictionary of the additional attributes.

key as variant

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The key of the metadata item.

keySpace as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The keyspace of the metadata item's key.

Notes: This will typically be the default keyspace for the metadata container in which the metadata item

is stored

locale as NSLocaleMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The locale of the metadata item.

Notes: May be nil if no locale information is available for the metadata item.

metadataItemsFromArrayWithKey(items() as QTKitMetadataItemMBS, key as variant, keySpace as string) as QTKitMetadataItemMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Filters an array of QTKitMetadataItem objects according to key and/or keySpace.

Notes:

array: An array of QTKitMetadataItem objects to be filtered by key and/or keySpace.

key: The key that must be matched for a metadata item to be copied to the output array.

The keys will be compared to the keys of the QTKitMetadataItem objects in the array via string comparison. If no filtering according to key is desired, pass "".

keySpace: The keySpace that must be matched for a metadata item to be copied to the output array.

The keySpace will be compared to the keySpaces of the QTKitMetadataItems in the array via string comparison.

If no filtering according to keySpace is desired, pass nil.

Returns an array object containing the metadata items of the specified array that match the specified key and/or keySpace.

metadataItemsFromArrayWithLocale(items() as QTKitMetadataItemMBS, locale as NSLocaleMBS) as QTKitMetadataItemMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Filters an array of QTKitMetadataItem objects according to locale.

Notes:

array: An array of QTKitMetadataItem objects to be filtered by locale.

locale: The NSLocaleMBS that must be matched for a metadata item to be copied to the output array.

Returns an array object containing the metadata items of the specified array that match the specified locale.

numberValue as double

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Provides the value of the metadata item as a number.

Notes: If the metadata item's value can't be coerced to a number, numberValue will be 0.

QTMetadata3GPUserDataKeyAuthor as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadata3GPUserDataKeyCopyright as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadata3GPUserDataKeyDescription as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadata3GPUserDataKeyGenre as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadata3GPUserDataKeyLocation as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadata3GPUserDataKeyPerformer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadata3GPUserDataKeyRecordingYear as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadata3GPUserDataKeyTitle as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataCommonKeyAlbumName as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Album Name

QTMetadataCommonKeyArtist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Artist

QTMetadataCommonKeyArtwork as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Artwork

QTMetadataCommonKeyAuthor as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Author

QTMetadataCommonKeyComment as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Comment

QTMetadataCommonKeyContributor as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Contributor

QTMetadataCommonKeyCopyrights as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Copyrights

QTMetadataCommonKeyCreationDate as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Creation Date

QTMetadataCommonKeyCreator as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Creator

QTMetadataCommonKeyDescription as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Description

QTMetadataCommonKeyFormat as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Format

QTMetadataCommonKeyIdentifier as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Identifier

QTMetadataCommonKeyLanguage as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Language

QTMetadataCommonKeyLastModifiedDate as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Last modified date

QTMetadataCommonKeyLocation as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Location

QTMetadataCommonKeyMake as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Make

QTMetadataCommonKeyModel as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Model

QTMetadataCommonKeyPublisher as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Publisher

QTMetadataCommonKeyRelation as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Relation

QTMetadataCommonKeySoftware as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Software

QTMetadataCommonKeySource as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Source

QTMetadataCommonKeySubject as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Subject

QTMetadataCommonKeyTitle as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Title

QTMetadataCommonKeyType as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the common key space.

Notes: Type

QTMetadataFormatID3Metadata as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the metadata format constants.

QTMetadataFormatiTunesMetadata as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the metadata format constants.

QTMetadataFormatQuickTimeMetadata as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the metadata format constants.

QTMetadataFormatQuickTimeUserData as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the metadata format constants.

QTMetadataID3MetadataKeyAlbumSortOrder as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TSOA Album sort order

QTMetadataID3MetadataKeyAlbumTitle as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TALB Album/Movie/Show title

QTMetadataID3MetadataKeyAttachedPicture as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: APIC Attached picture

QTMetadataID3MetadataKeyAudioEncryption as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: AENC Audio encryption

QTMetadataID3MetadataKeyAudioSeekPointIndex as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: ASPI Audio seek point index

QTMetadataID3MetadataKeyBand as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TPE2 Band/orchestra/accompaniment

QTMetadataID3MetadataKeyBeatsPerMinute as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TBPM BPM (beats per minute)

QTMetadataID3MetadataKeyComments as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: COMM Comments

QTMetadataID3MetadataKeyCommercialInformation as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: WCOM Commercial information

QTMetadataID3MetadataKeyCommerical as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: COMR Commercial frame

QTMetadataID3MetadataKeyComposer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TCOM Composer

QTMetadataID3MetadataKeyConductor as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TPE3 Conductor/performer refinement

QTMetadataID3MetadataKeyContentGroupDescription as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TIT1 Content group description

QTMetadataID3MetadataKeyContentType as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TCON Content type

QTMetadataID3MetadataKeyCopyright as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TCOP Copyright message

QTMetadataID3MetadataKeyCopyrightInformation as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: WCOP Copyright/Legal information

QTMetadataID3MetadataKeyDate as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TDAT Date

QTMetadataID3MetadataKeyEncodedBy as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TENC Encoded by

QTMetadataID3MetadataKeyEncodedWith as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TSSE Software/Hardware and settings used for encoding

QTMetadataID3MetadataKeyEncodingTime as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TDEN Encoding time

QTMetadataID3MetadataKeyEncryption as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: ENCR Encryption method registration

QTMetadataID3MetadataKeyEqualization as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: EQUA Equalization

QTMetadataID3MetadataKeyEqualization2 as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: EQU2 Equalization (2)

QTMetadataID3MetadataKeyEventTimingCodes as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: ETCO Event timing codes

QTMetadataID3MetadataKeyFileOwner as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TOWN File owner/licensee

QTMetadataID3MetadataKeyFileType as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TFLT File type

QTMetadataID3MetadataKeyGeneralEncapsulatedObject as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: GEOB General encapsulated object

QTMetadataID3MetadataKeyGroupIdentifier as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: GRID Group identification registration

QTMetadataID3MetadataKeyInitialKey as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TKEY Initial key

QTMetadataID3MetadataKeyInternationalStandardRecordingCode as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TSRC ISRC (international standard recording code)

QTMetadataID3MetadataKeyInternetRadioStationName as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TRSN Internet radio station name

QTMetadataID3MetadataKeyInternetRadioStationOwner as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TRSO Internet radio station owner

QTMetadataID3MetadataKeyInvolvedPeopleList_ v23 as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: IPLS Involved people list

QTMetadataID3MetadataKeyInvolvedPeopleList_ v24 as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TIPL Involved people list

QTMetadataID3MetadataKeyLanguage as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TLAN Language(s)

QTMetadataID3MetadataKeyLeadPerformer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TPE1 Lead performer(s)/Soloist(s)

QTMetadataID3MetadataKeyLength as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TLEN Length

QTMetadataID3MetadataKeyLink as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: LINK Linked information

QTMetadataID3MetadataKeyLyricist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TEXT Lyricist/Text writer

QTMetadataID3MetadataKeyMediaType as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TMED Media type

QTMetadataID3MetadataKeyModifiedBy as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TPE4 Interpreted, remixed, or otherwise modified by

QTMetadataID3MetadataKeyMood as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TMOO Mood

QTMetadataID3MetadataKeyMPEGLocationLookupTable as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: MLLT MPEG location lookup table

QTMetadataID3MetadataKeyMusicCDIdentifier as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: MCDI Music CD identifier

QTMetadataID3MetadataKeyMusicianCreditsList as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TMCL Musician credits list

QTMetadataID3MetadataKeyOfficialArtistWebpage as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: WOAR Official artist/performer webpage

QTMetadataID3MetadataKeyOfficialAudioFileWebpage as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: WOAF Official audio file webpage

QTMetadataID3MetadataKeyOfficialAudioSourceWebpage as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: WOAS Official audio source webpage

QTMetadataID3MetadataKeyOfficialInternetRadioStationHomepage as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: WORS Official Internet radio station homepage

QTMetadataID3MetadataKeyOfficialPublisherWebpage as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: WPUB Publisher's official webpage

QTMetadataID3MetadataKeyOriginalAlbumTitle as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TOAL Original album/movie/show title

QTMetadataID3MetadataKeyOriginalArtist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TOPE Original artist(s)/performer(s)

QTMetadataID3MetadataKeyOriginalFilename as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TOFN Original filename

QTMetadataID3MetadataKeyOriginalLyricist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TOLY Original lyricist(s)/text writer(s)

QTMetadataID3MetadataKeyOriginalReleaseTime as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TDOR Original release time

QTMetadataID3MetadataKeyOriginalReleaseYear as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TORY Original release year

QTMetadataID3MetadataKeyOwnership as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: OWNE Ownership frame

QTMetadataID3MetadataKeyPartOfASet as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TPOS Part of a set

QTMetadataID3MetadataKeyPayment as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: WPAY Payment

QTMetadataID3MetadataKeyPerformerSortOrder as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TSOP Performer sort order

QTMetadataID3MetadataKeyPlayCounter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: PCNT Play counter

QTMetadataID3MetadataKeyPlaylistDelay as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TDLY Playlist delay

QTMetadataID3MetadataKeyPopularimeter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: POPM Popularimeter

QTMetadataID3MetadataKeyPositionSynchronization as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: POSS Position synchronisation frame

QTMetadataID3MetadataKeyPrivate as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: PRIV Private frame

QTMetadataID3MetadataKeyProducedNotice as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TPRO Produced notice

QTMetadataID3MetadataKeyPublisher as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TPUB Publisher

QTMetadataID3MetadataKeyRecommendedBufferSize as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: RBUF Recommended buffer size

QTMetadataID3MetadataKeyRecordingDates as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TRDA Recording dates

QTMetadataID3MetadataKeyRecordingTime as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TDRC Recording time

QTMetadataID3MetadataKeyRelativeVolumeAdjustment as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: RVAD Relative volume adjustment

QTMetadataID3MetadataKeyRelativeVolumeAdjustment2 as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: RVA2 Relative volume adjustment (2)

QTMetadataID3MetadataKeyReleaseTime as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TDRL Release time

QTMetadataID3MetadataKeyReverb as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: RVRB Reverb

QTMetadataID3MetadataKeySeek as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: SEEK Seek frame

QTMetadataID3MetadataKeySetSubtitle as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TSST Set subtitle

QTMetadataID3MetadataKeySignature as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: SIGN Signature frame

QTMetadataID3MetadataKeySize as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TSIZ Size

QTMetadataID3MetadataKeySubTitle as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TIT3 Subtitle/Description refinement

QTMetadataID3MetadataKeySynchronizedLyric as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: SYLT Synchronized lyric/text

QTMetadataID3MetadataKeySynchronizedTempoCodes as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: SYTC Synchronized tempo codes

QTMetadataID3MetadataKeyTaggingTime as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TDTG Tagging time

QTMetadataID3MetadataKeyTermsOfUse as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: USER Terms of use

QTMetadataID3MetadataKeyTime as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TIME Time

QTMetadataID3MetadataKeyTitleDescription as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TIT2 Title/songname/content description

QTMetadataID3MetadataKeyTitleSortOrder as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TSOT Title sort order

QTMetadataID3MetadataKeyTrackNumber as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TRCK Track number/Position in set

QTMetadataID3MetadataKeyUniqueFileIdentifier as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: UFID Unique file identifier

QTMetadataID3MetadataKeyUnsynchronizedLyric as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: USLT Unsynchronized lyric/text transcription

QTMetadataID3MetadataKeyUserText as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TXXX User defined text information frame

QTMetadataID3MetadataKeyUserURL as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: WXXX User defined URL link frame

QTMetadataID3MetadataKeyYear as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the ID3 metadata key space.

Notes: TYER Year

QTMetadataISOUserDataKeyCopyright as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataiTunesMetadataKeyAccountKind as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyAcknowledgement as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyAlbum as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyAlbumArtist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyAppleID as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyArranger as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyArtDirector as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyArtist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyArtistID as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyAuthor as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyBeatsPerMin as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyComposer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyConductor as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyContentRating as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyCopyright as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyCoverArt as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyCredits as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyDescription as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyDirector as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyDiscCompilation as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyDiscNumber as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyEncodedBy as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyEncodingTool as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyEQ as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyExecProducer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyGenreID as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyGrouping as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyLinerNotes as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyLyrics as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyOnlineExtras as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyOriginalArtist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyPerformer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyPhonogramRights as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyPlaylistID as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyPredefinedGenre as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyProducer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyPublisher as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyRecordCompany as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyReleaseDate as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeySoloist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeySongID as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeySongName as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeySoundEngineer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyThanks as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyTrackNumber as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyTrackSubTitle as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadatalTunesMetadataKeyUserComment as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataiTunesMetadataKeyUserGenre as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the iTunes Metadata key space.

QTMetadataKeySpaceCommon as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key space constants.

QTMetadataKeySpaceID3 as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key space constants.

QTMetadataKeySpaceiTunes as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key space constants.

QTMetadataKeySpaceQuickTimeMetadata as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key space constants.

QTMetadataKeySpaceQuickTimeUserData as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key space constants.

QTMetadataQuickTimeMetadataKeyAlbum as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyArranger as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyArtist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyArtwork as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyAuthor as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyComment as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyComposer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyCopyright as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyCreationDate as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyCredits as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyDescription as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyDirector as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyDisplayName as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyEncodedBy as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyGenre as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyInformation as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyiXML as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyKeywords as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyLocationISO6709 as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyMake as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyModel as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyOriginalArtist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyPerformer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyPhonogramRights as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyProducer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyPublisher as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeySoftware as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeMetadataKeyYear as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the Quicktime Metadata key space.

QTMetadataQuickTimeUserDataKeyAlbum as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyArranger as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyArtist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyAuthor as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyChapter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyComment as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyComposer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyCopyright as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyCreationDate as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyCredits as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyDescription as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyDirector as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyDisclaimer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyEncodedBy as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyFullName as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyGenre as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyHostComputer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyInformation as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyKeywords as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyLocationISO6709 as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyMake as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyModel as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyOriginalArtist as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyOriginalFormat as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyOriginalSource as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyPerformers as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyPhonogramRights as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyProducer as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyProduct as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyPublisher as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeySoftware as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeySpecialPlaybackRequirements as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyTrack as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyTrackName as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyURLLink as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyWarning as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

QTMetadataQuickTimeUserDataKeyWriter as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** One of the key constants in the QuickTime userdata key space.

stringValue as string

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Provides the value of the metadata item as a string; will be "" if the value cannot be represented as a string.

time as QTKitTimeMBS

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The timestamp of the metadata item.

value as variant

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** Provides the value of the metadata item.

2.29.2 Properties**Handle as Integer**

Plugin Version: 11.2 Console & Web: Yes Mac: Yes, Win: No, Linux: No, . **Function:** The internal reference to the object.

Notes: (Read and Write property)

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- QTKitModuleMBS

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