
QTCompressionOptions Class Reference

Audio & Video



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Apple Inc.
1 Infinite Loop
Cupertino, CA 95014
408-996-1010

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QTCompressionOptions Class Reference

Inherits from	NSObject
Conforms to	NSObject (NSObject)
Framework	/System/Library/Frameworks/QTKit.framework
Availability	Available in QuickTime 7.2.1 and later.
Declared in	QTCompressionOptions.h
Related sample code	MyRecorder QTCompressionOptionsWindow

Overview

This class represents a set of compression options for a particular type of media. `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 “[Compression Options Identifiers](#)” (page 8) section that describes the Compression Options Identifiers.

Note that not all documented identifiers may be available for a given system configuration. Clients should always query for available identifiers first.

Tasks

Creating and Configuring Compression Options

- + [compressionOptionsIdentifiersForMediaType:](#) (page 6)
Returns all of the possible identifiers for the given media type that can be used with `compressionOptionsWithIdentifier:` on the user’s system.
- + [compressionOptionsWithIdentifier:](#) (page 6)
Returns a compression options object configured for the given identifier.

Receiving Compression Options

- [mediaType](#) (page 8)
The media type on which the receiver’s compression options should be used.

- [localizedDisplayName](#) (page 7)
A short localized name describing the receiver's compression options.
- [localizedCompressionOptionsSummary](#) (page 7)
A localized summary of the receiver's compression options.
- [isEqualToCompressionOptions:](#) (page 7)
Returns whether the receiver contains options identical to those in the given compression options object.

Class Methods

compressionOptionsIdentifiersForMediaType:

Returns all of the possible identifiers for the given media type that can be used with `compressionOptionsWithIdentifier:` on the user's system.

```
+ (NSArray *)compressionOptionsIdentifiersForMediaType:(NSString *)mediaType
```

Parameters

mediaType

A media type used to create compression options.

Return Value

An array of strings that can be used to create compression options with the `compressionOptionsWithIdentifier:` method.

Discussion

Media types are defined in `QTMedia.h`.

Availability

Mac OS X v10.5 and later.

Related Sample Code

`QTCompressionOptionsWindow`

Declared In

`QTCompressionOptions.h`

compressionOptionsWithIdentifier:

Returns a compression options object configured for the given identifier.

```
+ (id)compressionOptionsWithIdentifier:(NSString *)identifier
```

Parameters

identifier

The identifier for the compression options object.

Return Value

A compression options object with the appropriate compression options.

Availability

Mac OS X v10.5 and later.

Related Sample Code

MyRecorder

QTCompressionOptionsWindow

Declared In

QTCompressionOptions.h

Instance Methods

isEqualToCompressionOptions:

Returns whether the receiver contains options identical to those in the given compression options object.

- (BOOL)isEqualToCompressionOptions:(QTCompressionOptions *)compressionOptions

Parameters

compressionOptions

The compression options of the compression options object.

Availability

Mac OS X v10.5 and later.

Declared In

QTCompressionOptions.h

localizedCompressionOptionsSummary

A localized summary of the receiver's compression options.

- (NSString *)localizedCompressionOptionsSummary

Return Value

A localized string summarizing the receiver's compression options.

Availability

Mac OS X v10.5 and later.

Declared In

QTCompressionOptions.h

localizedDisplayName

A short localized name describing the receiver's compression options.

- (NSString *)localizedDisplayName

Return Value

A localized string appropriate for display in the user interface (in a list of compression options, for example).

Availability

Mac OS X v10.5 and later.

Related Sample Code

QTCompressionOptionsWindow

Declared In

QTCompressionOptions.h

mediaType

The media type on which the receiver’s compression options should be used.

- (NSString *)mediaType

Return Value

A QuickTime media type, such as QTMediaTypeVideo or QTMediaTypeSound.

Availability

Mac OS X v10.5 and later.

Declared In

QTCompressionOptions.h

Constants

Compression Options Identifiers

These identifiers can be passed to the `compressionOptionsWithIdentifier:` class method to get an instance configured with the compression options for that identifier. Each identifier represents a set of options that determine how media will be compressed.


```
QTCompressionOptionsLosslessAppleIntermediateVideo;  
QTCompressionOptionsLosslessAnimationVideo;  
QTCompressionOptions120SizeH264Video;  
QTCompressionOptions240SizeH264Video;  
QTCompressionOptionsSD480SizeH264Video;  
QTCompressionOptions120SizeMPEG4Video;  
QTCompressionOptions240SizeMPEG4Video;  
QTCompressionOptionsSD480SizeMPEG4Video;  
QTCompressionOptionsLosslessALCAudio;  
QTCompressionOptionsHighQualityAACAudio;  
QTCompressionOptionsVoiceQualityAACAudio;
```

Constants

QTCompressionOptionsLosslessAppleIntermediateVideo

Compresses video using the Apple Intermediate codec at lossless quality.

This is appropriate for an intermediate format for media that requires further processing.

Only available in 32-bit.

QTCompressionOptionsLosslessAnimationVideo

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.

QTCompressionOptions120SizeH264Video

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.

QTCompressionOptions240SizeH264Video

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.

QTCompressionOptionsSD480SizeH264Video

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.

QTCompressionOptions120SizeMPEG4Video

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.

Only available in 32-bit.

QTCompressionOptions240SizeMPEG4Video

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.

Only available in 32-bit.

`QTCompressionOptionsSD480SizeMPEG4Video`

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.

Only available in 32-bit.

`QTCompressionOptionsLosslessALACAudio`

Compresses audio using the Apple Lossless codec.

This is appropriate for an intermediate format for media that requires further processing.

`QTCompressionOptionsHighQualityAACAudio`

Compresses audio using the AAC codec at 64 kbps per channel.

This is appropriate for delivery of high-quality music and other audio.

`QTCompressionOptionsVoiceQualityAACAudio`

Compresses audio using the AAC codec at 32 kbps per channel.

This is appropriate for delivery of voice recordings.

Document Revision History

This table describes the changes to *QTCompressionOptions Class Reference*.

Date	Notes
2009-05-20	Added information on availability of compression option identifiers. Minor fixes.
2009-04-08	Fixed constant listings. Minor fixes. Verification of method descriptions.
2009-03-04	Added availability information; 64-bit support. Fixed method descriptions. Minor edit fixes.
2007-07-23	New document that describes the Objective-C API for supporting and working with QuickTime Capture.

REVISION HISTORY

Document Revision History