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# QTDataReference Class Reference

[QuickTime](#) > [Cocoa](#)



2009-04-08



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# QTDataReference Class Reference

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<b>Inherits from</b>	NSObject
<b>Conforms to</b>	NSCoding NSObject (NSObject)
<b>Framework</b>	/System/Library/Frameworks/QTKit.framework
<b>Availability</b>	Available in Mac OS X v10.4 and later.
<b>Declared in</b>	QTDataReference.h

## Overview

A `QTDataReference` object is a representation of a QuickTime data reference which specifies the location of a QuickTime movie or some media data. You can create `QTDataReference` objects that refer to data stored in files accessed using filenames or URLs, or in memory accessed using handles, pointers, or `NSData` objects.

## Tasks

### Creating a QTDataReference

- + [dataReferenceWithDataRef:type:](#) (page 7)  
Creates a `QTDataReference` object of type *type* initialized with data from *dataRef*.
- + [dataReferenceWithDataRefData:type:](#) (page 7)  
Creates a `QTDataReference` object of type *type* initialized with data from *dataRefData*.
- + [dataReferenceWithReferenceToFile:](#) (page 8)  
Creates a `QTDataReference` object for the file *fileName*.
- + [dataReferenceWithReferenceToURL:](#) (page 9)  
Creates a `QTDataReference` object for the URL *url*.
- + [dataReferenceWithReferenceToData:](#) (page 7)  
Creates a `QTDataReference` object for the data block *data*.
- + [dataReferenceWithReferenceToData:name:MIMETYPE:](#) (page 8)  
Creates a `QTDataReference` object for the data block *data*.

## Initializing a QTDataReference

- [initWithDataRef:type:](#) (page 10)  
Initializes a newly created QTDataReference object with data from *dataRef*.
- [initWithDataRefData:type:](#) (page 10)  
Initializes a newly created QTDataReference object with data from *dataRefData*.
- [initWithReferenceToFile:](#) (page 11)  
Initializes a newly created QTDataReference object for the file *fileName*.
- [initWithReferenceToURL:](#) (page 11)  
Initializes a newly created QTDataReference object for the URL *url*.
- [initWithReferenceToData:](#) (page 10)  
Initializes a newly created QTDataReference object for the data block *data*.
- [initWithReferenceToData:name:MIMETYPE:](#) (page 10)  
Initializes a newly created QTDataReference object for the data block *data*.

## Getting and Setting Data Reference Information

- [dataRef](#) (page 9)  
Returns the QuickTime data reference associated with a QTDataReference object.
- [dataRefData](#) (page 9)  
Returns the QuickTime data reference data associated with a QTDataReference object, stored in an NSData object.
- [dataRefType](#) (page 9)  
Returns the type of the data reference associated with a QTDataReference object.
- [referenceFile](#) (page 12)  
Returns the file name of the data reference associated with a QTDataReference object.
- [referenceURL](#) (page 12)  
Returns the URL of the data reference associated with a QTDataReference object.
- [referenceData](#) (page 12)  
Returns the reference data of a QTDataReference object, that is, the NSData object passed to [initWithReferenceToData](#) or [initWithReferenceToData:name:MIMETYPE](#).
- [name](#) (page 12)  
Returns the name in a filename extension associated with a QTDataReference object.
- [MIMETYPE](#) (page 11)  
Returns the type in a MIME type extension associated with a QTDataReference object.
- [setDataRef:](#) (page 13)  
Sets the data reference data of a QTDataReference object to *dataRef*.
- [setDataRefType:](#) (page 13)  
Sets the data reference type of a QTDataReference object to *type*.

## Class Methods

### **dataReferenceWithDataRef:type:**

Creates a QTDataReference object of type *type* initialized with data from *dataRef*.

```
+ (id)dataReferenceWithDataRef:(Handle)dataRef type:(NSString *)type
```

#### **Parameters**

*dataRef*

The data reference stored as a handle in a QTDataReference object.

*type*

The type of initialized data from a data reference.

#### **Discussion**

You can use this call to convert an existing QuickTime data reference (stored as a handle) into a QTDataReference.

#### **Availability**

Available in Mac OS X v10.3 and later.

#### **Declared In**

QTDataReference.h

### **dataReferenceWithDataRefData:type:**

Creates a QTDataReference object of type *type* initialized with data from *dataRefData*.

```
+ (id)dataReferenceWithDataRefData:(NSData *)dataRefData type:(NSString *)type
```

#### **Parameters**

*dataRefData*

The NSData object with data referenced data.

*type*

The type initialized with data.

#### **Availability**

Available in Mac OS X v10.3 and later.

#### **Declared In**

QTDataReference.h

### **dataReferenceWithReferenceToData:**

Creates a QTDataReference object for the data block *data*.

```
+ (id)dataReferenceWithReferenceToData:(NSData *)data
```

**Parameters**

*data*

The data for the QTDataReference object.

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**dataReferenceWithReferenceToData:name:MIMETYPE:**

Creates a QTDataReference object for the data block *data*.

```
+ (id)dataReferenceWithReferenceToData:(NSData *)data name:(NSString *)name
  MIMETYPE:(NSString *)MIMETYPE
```

**Parameters**

*data*

The data of the QTDataReference object.

*name*

The name of the QTDataReference object.

*MIMETYPE*

The MIME type for the data reference.

**Discussion**

This data reference has two data reference extensions, a filenames extension and a MIME type extension.

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**dataReferenceWithReferenceToFile:**

Creates a QTDataReference object for the file *fileName*.

```
+ (id)dataReferenceWithReferenceToFile:(NSString *)fileName
```

**Parameters**

*fileName*

The file name for a full path for a file.

**Discussion**

The *fileName* is assumed to be a full path name for a file.

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h



## **dataReferenceWithURL:**

Creates a QTDataReference object for the URL *url*.

```
+ (id)dataReferenceWithURL:(NSURL *)url
```

### **Parameters**

*url*

The URL for the QTDataReference object.

### **Availability**

Available in Mac OS X v10.3 and later.

### **Declared In**

QTDataReference.h

## Instance Methods

### **dataRef**

Returns the QuickTime data reference associated with a QTDataReference object.

```
- (Handle)dataRef
```

### **Availability**

Available in Mac OS X v10.3 and later.

### **Declared In**

QTDataReference.h

### **dataRefData**

Returns the QuickTime data reference data associated with a QTDataReference object, stored in an NSData object.

```
- (NSData *)dataRefData
```

### **Availability**

Available in Mac OS X v10.3 and later.

### **Declared In**

QTDataReference.h

### **dataRefType**

Returns the type of the data reference associated with a QTDataReference object.

```
- (NSString *)dataRefType
```

### **Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**initWithDataRef:type:**

Initializes a newly created QTDataReference object with data from *dataRef*.

- (id)initWithDataRef:(Handle) *dataRef* type:(NSString \*)*type*

**Discussion**

The QTDataReference is of type *dataRefType*. You can use this call to convert an existing QuickTime data reference (stored as a handle) into a QTDataReference.

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**initWithDataRefData:type:**

Initializes a newly created QTDataReference object with data from *dataRefData*.

- (id)initWithDataRefData:(NSData \*)*dataRefData* type:(NSString \*)*type*

**Discussion**

The QTDataReference is of type *dataRefType*.

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**initWithReferenceToData:**

Initializes a newly created QTDataReference object for the data block *data*.

- (id)initWithReferenceToData:(NSData \*)*data*

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**initWithReferenceToData:name:MIMEType:**

Initializes a newly created QTDataReference object for the data block *data*.

```
- (id)initWithReferenceToData:(NSData *)data name:(NSString *)name MIMETYPE:(NSString *)MIMETYPE
```

#### Discussion

This data reference has two data reference extensions: a filenames extension and a MIME type extension.

#### Availability

Available in Mac OS X v10.3 and later.

#### Declared In

QTDataReference.h

### initWithReferenceToFile:

Initializes a newly created QTDataReference object for the file *fileName*.

```
- (id)initWithReferenceToFile:(NSString *)fileName
```

#### Parameters

*fileName*

The file name for the file.

#### Discussion

The *fileName* is assumed to be a full path name for a file.

#### Availability

Available in Mac OS X v10.3 and later.

#### Declared In

QTDataReference.h

### initWithReferenceToURL:

Initializes a newly created QTDataReference object for the URL *url*.

```
- (id)initWithReferenceToURL:(NSURL *)url
```

#### Availability

Available in Mac OS X v10.3 and later.

#### Declared In

QTDataReference.h

### MIMETYPE

Returns the type in a MIME type extension associated with a QTDataReference object.

```
- (NSString *)MIMETYPE
```

#### Availability

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**name**

Returns the name in a filename extension associated with a QTDataReference object.

- (NSString \*)name

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**referenceData**

Returns the reference data of a QTDataReference object, that is, the NSData object passed to initWithReferenceToData or initWithReferenceToData:name:MIMETYPE.

- (NSData \*)referenceData

**Discussion**

For some QTDataReference objects, this may be NIL.

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**referenceFile**

Returns the file name of the data reference associated with a QTDataReference object.

- (NSString \*)referenceFile

**Discussion**

For some QTDataReference objects, this name may be NIL.

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**referenceURL**

Returns the URL of the data reference associated with a QTDataReference object.

- (NSURL \*)referenceURL

**Discussion**

For some QTDataReference objects, this URL may be NIL.

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**setDataRef:**

Sets the data reference data of a QTDataReference object to *dataRef*.

- (void)setDataRef:(Handle)*dataRef*

**Discussion**

The previous data reference data is disposed of.

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

**setDataRefType:**

Sets the data reference type of a QTDataReference object to *type*.

- (void)setDataRefType:(NSString \*)*type*

**Availability**

Available in Mac OS X v10.3 and later.

**Declared In**

QTDataReference.h

## Constants

### Data Reference Types

Constants are Cocoa identifiers for the basic data reference types. One of these types would be returned, for instance, by this method: - (NSString \*) dataRefType.

```
NSString * const QTDataReferenceTypeFile;  
NSString * const QTDataReferenceTypeHandle;  
NSString * const QTDataReferenceTypePointer;  
NSString * const QTDataReferenceTypeResource;  
NSString * const QTDataReferenceTypeURL;
```

### Constants

QTDataReferenceTypeFile

**The file type for a QTDataReference object.**

**Available in Mac OS X v10.3 and later.**

**Declared in** QTDataReference.h.

QTDataReferenceTypeHandle

**The handle type for a QTDataReference object.**

**Available in Mac OS X v10.3 and later.**

**Declared in** QTDataReference.h.

QTDataReferenceTypePointer

**The pointer type for a QTDataReference object.**

**Available in Mac OS X v10.3 and later.**

**Declared in** QTDataReference.h.

QTDataReferenceTypeResource

**The resource type for a QTDataReference object.**

**Available in Mac OS X v10.3 and later.**

**Declared in** QTDataReference.h.

QTDataReferenceTypeURL

**The URL type for a QTDataReference object.**

**Available in Mac OS X v10.3 and later.**

**Declared in** QTDataReference.h.

# Document Revision History

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

Date	Notes
2009-04-08	Added parameter descriptions, updated constant listings. Minor fixes.
2009-03-04	Fixed constant descriptions; minor edits.
2006-05-23	First publication of this content as a separate document.
	First publication of this content as a separate document.

**REVISION HISTORY**

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