Quick Look Framework Reference for iOS



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Introduction

Framework	/System/Library/Frameworks/QuickLook.framework
Header file directories	/System/Library/Frameworks/QuickLook.framework/Headers
Declared in	QLPreviewController.h QLPreviewItem.h

Use the Quick Look framework to provide previews of items that are in formats you don't handle—such as iWork or Microsoft Office. This framework affords you more control over the preview process than you get from the UIDocumentInteractionController class—including choosing whether the preview is displayed in the context of a navigation controller or modally (full screen). The primary class in this framework is QLPreviewController, which provides a specialized view for previewing an item. It relies on a delegate for mediating preview actions, and a data source for providing the preview items.

If you want to take advantage of the options-menu feature, which lets a user pick an application to open a previewed item with, use the UIDocumentInteractionController class instead.

Classes

QLPreviewController Class Reference

UIAppearanceContainer (UIViewController) NSObject (NSObject)	
UIAppearanceContainer (UIViewController)	
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Conforms to NSCoding (UIViewController)	NSCoding (UIViewController)
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Overview

A QLPreviewController object, or Quick Look preview controller, provides a specialized view for previewing an item. To display a Quick Look preview controller you have two options: You can push it into view using a UINavigationController object, or can present it modally, full screen, using the presentModalViewController:animated: method of its parent class, UIViewController.

A displayed preview includes a title taken from the last path component of the item URL. You can override this by implementing a previewItemTitle (page 22) accessor for the preview item.

A Quick Look preview controller can display previews for the following items:

- iWork documents
- Microsoft Office documents (Office '97 and newer)
- Rich Text Format (RTF) documents
- PDF files
- Images
- Text files whose uniform type identifier (UTI) conforms to the public.text type (see Uniform Type Identifiers Reference)
- Comma-separated value (csv) files

To use a Quick Look preview controller, you must provide a data source object. The data source provides preview items to the controller and tells it how many items to include in a preview navigation list. If there is more than one item in the list, a modally-presented (that is, full-screen) controller displays navigation arrows to let the user switch among the items. For a Quick Look preview controller pushed using a navigation controller, you can provide buttons in the navigation bar for moving through the navigation list.

For details on providing items to a preview controller, refer to QLPreviewControllerDataSource Protocol Reference and QLPreviewItem Protocol Reference for iOS.

Tasks

Configuring a Quick Look Preview Controller

```
dataSource (page 7) property
```

The Quick Look preview controller's data source.

```
delegate (page 8) property
```

The Quick Look preview controller's delegate object.

Managing Item Previews

+ canPreviewItem: (page 8)

Indicates whether or not the Quick Look preview controller can display an item.

```
currentPreviewItem (page 7) property
```

The item currently displayed in the Quick Look preview controller. (read-only)

```
currentPreviewItemIndex (page 7) property
```

The index, within the preview item navigation list, of the item currently displayed in the Quick Look preview controller.

- refreshCurrentPreviewItem (page 9)

Asks the Quick Look preview controller to recompute the display of the current preview item.

- reloadData (page 9)

Asks the Preview Controller to reload its data from its data source.

Properties

currentPreviewItem

The item currently displayed in the Quick Look preview controller. (read-only)

@property (readonly) id<QLPreviewItem> currentPreviewItem

Discussion

If no item is being displayed, this property's value is nil.

Availability

Available in iOS 4.0 and later.

Declared in

QLPreviewController.h

currentPreviewItemIndex

The index, within the preview item navigation list, of the item currently displayed in the Quick Look preview controller.

@property NSInteger currentPreviewItemIndex

Discussion

You can change which item is displayed, among those in a navigation list, by setting this property's value. If no item is being displayed, this property's value is NSNotFound.

Availability

Available in iOS 4.0 and later.

Related Sample Code DocInteraction

Declared in

QLPreviewController.h

dataSource

The Quick Look preview controller's data source.

@property (assign) id<QLPreviewControllerDataSource> dataSource

Discussion

To use a Quick Look preview controller, you must implement a data source. The data source is responsible for providing items for display by the controller, and for telling it how many items to include in the preview navigation list. It is described in QLPreviewControllerDataSource Protocol Reference.

Availability

Available in iOS 4.0 and later.

Related Sample Code DocInteraction

Declared in

OLPreviewController.h

delegate

The Quick Look preview controller's delegate object.

@property (assign) id delegate

Discussion

The delegate determines whether or not to open URLs that the user taps in a preview. See *QLPreviewControllerDelegate Protocol Reference*.

Availability

Available in iOS 4.0 and later.

Related Sample Code DocInteraction

Declared in

OLPreviewController.h

Class Methods

canPreviewItem:

Indicates whether or not the Quick Look preview controller can display an item.

+ (BOOL) canPreviewItem: (id < QLPreviewItem >) item

Parameters

item

An item to be previewed.

Return Value

Returns YES if the Quick Look preview controller can display the specified preview item.

Discussion

If an item cannot be displayed, but you still attempt to display it, a Quick Look preview controller displays a generic error. Always check if an item can be displayed before choosing whether or not to display it.

Refer to this document's Overview section (QLPreviewController (page 5)) for the types of items that a Quick Look preview controller can display.

Availability

Available in iOS 4.0 and later.

Declared in

QLPreviewController.h

Instance Methods

refreshCurrentPreviewItem

Asks the Quick Look preview controller to recompute the display of the current preview item.

- (void) refreshCurrentPreviewItem

Discussion

The display is recomputed whether or not the current preview item has changed.

Availability

Available in iOS 4.0 and later.

Declared in

OLPreviewController.h

reloadData

Asks the Preview Controller to reload its data from its data source.

- (void) reloadData

Discussion

The display is recomputed only if the current preview item has changed.

Availability

Available in iOS 4.0 and later.

Declared in

QLPreviewController.h

Protocols

QLPreviewControllerDataSource Protocol Reference

Framework	/System/Library/Frameworks/QuickLook.framework	
Availability	Available in iOS 4.0 and later.	
Declared in		
Related sample code	DocInteraction	

Overview

The data source for a QLPreviewController (Quick Look preview controller) object must adopt this protocol to enable it to provide preview items to the controller.

This protocol also lets the data source tell the controller how many items to include in a preview item navigation list.

This protocol's methods are required.

Tasks

Providing Data to a Quick Look Preview Controller

- numberOfPreviewItemsInPreviewController: (page 13)
 - Invoked when the Quick Look preview controller needs to know the number of preview items to include in the preview navigation list. (required)
- previewController:previewItemAtIndex: (page 13)
 - Invoked when the Quick Look preview controller needs the preview item for a specified index position. (required)

Instance Methods

numberOfPreviewItemsInPreviewController:

Invoked when the Quick Look preview controller needs to know the number of preview items to include in the preview navigation list. (required)

- (NSInteger) numberOfPreviewItemsInPreviewController: (QLPreviewController *) controller;

Parameters

controller

The Quick Look preview controller that is requesting the number of preview items.

Return Value

The number of items that the Quick Look preview controller should include in its preview navigation list.

Discussion

If you push a Quick Look preview controller into view using a UINavigationController object that has a toolbar, the system automatically displays arrows in the toolbar to navigate among the items in the navigation list. If you are not displaying a toolbar and want to provide your own method of switching among items, use the currentPreviewItemIndex property to indicate the item you want to display.

If you display a preview controller modally (full screen), the controller includes navigation arrows if there is more than one item in the navigation list.

Availability

Available in iOS 4.0 and later.

Declared in

QLPreviewController.h

previewController:previewItemAtIndex:

Invoked when the Quick Look preview controller needs the preview item for a specified index position. (required)

```
- (id <QLPreviewItem>) previewController: (QLPreviewController *) controller
previewItemAtIndex: (NSInteger) index;
```

Parameters

controller

The Quick Look preview controller that is requesting a preview item.

index

The index position, within the preview navigation list, of the item to preview.

Return Value

The preview item to display. The item must be an NSURL object, or a custom object that conforms to the QLPreviewItem protocol.

Availability

Available in iOS 4.0 and later.

Declared in

QLPreviewController.h

QLPreviewControllerDelegate Protocol Reference

Conforms to	NSObject
Framework	/System/Library/Frameworks/QuickLook.framework
Availability	Available in iOS 4.0 and later.
Declared in	
Related sample code	DocInteraction

Overview

Implement the methods of this protocol in the delegate of a QLPreviewController (Quick Look preview controller) object to:

- Provide a zoom animation for Quick Look previews.
- Specify whether or not your application opens a URL that the user taps in a preview
- Respond to the opening or closing of a preview

The delegate of a QLPreviewController object must adopt this protocol. The methods described here are optional but expected.

Tasks

Responding to Preview Requests

- previewController:frameForPreviewItem:inSourceView: (page 16)

Called when a Quick Look preview is about to be presented full screen or dismissed, to provide a zoom effect.

- previewController:transitionImageForPreviewItem:contentRect: (page 18)

Called when the Quick Look preview controller is about to be presented full screen or dismissed; used to provide a smooth transition when zooming. (required)

- previewControllerWillDismiss: (page 19)

Called before the preview controller is closed.

- previewControllerDidDismiss: (page 19)

Called after the preview controller is closed.

Responding to User Actions

previewController:shouldOpenURL:forPreviewItem: (page 18)

Called by the Quick Look preview controller before trying to open a URL.

Instance Methods

previewController:frameForPreviewItem:inSourceView:

Called when a Quick Look preview is about to be presented full screen or dismissed, to provide a zoom effect.

```
- (CGRect)previewController:(QLPreviewController *)controller
frameForPreviewItem:(id <QLPreviewItem>)item
inSourceView:(UIView **)view
```

Parameters

controller

The Quick Look preview controller that is requesting the frame for the preview item.

item

The item to be previewed or dismissed.

view

The UIView object that contains the preview item as you display it in your application.

By providing a view object to the view parameter, you indicate to the Quick Look preview controller that you are specifying the returned CGRect object's origin point relative to that view.

Provide nil in this parameter to indicate that you are specifying the CGRect origin point in screen coordinates.

Return Value

A CGRect object defining the frame rectangle for the preview item as it appears in your application.

Discussion

Use this delegate method to configure a zoom animation for presenting and dismissing a Quick Look preview. The zoom proceeds between your own representation of the item and full screen.

This method is invoked only when your application uses the animation option for presentation or dismissal. Specifically, the following statements result in invocation of this method:

```
[parentController presentModaViewController: myPreviewController animated: YES];
// ...
[parentController dismissModalViewControllerAnimated: YES];
```

If you instead use Boolean N0 in these statements, the Quick Look preview controller displays the preview full-screen immediately, with no transition effect.

The preview item, and its origin point, can change while a preview is displayed. For example, the user may navigate to a different item using the controller, or may rotate the device. Always return the correct origin point when zooming to full screen, and when zooming back to your representation of the item.

Note: Zoom animation is most effective on large-screen devices. On iPhone and iPod touch, Apple encourages you to instead use a UINavigationController object to push the Quick Look preview controller into view. When using a navigation controller to push a preview, this method is not invoked.

To produce a zoom animation, return a CGRect object that represents the frame for the preview item as it appears in your application. Use coordinates relative to the UIView object that contains the item, and specify that view in the view parameter.

Alternatively, you can use screen coordinates for the returned CGRect object. In this case, you must specify nil in the view parameter.

To produce a full-screen fade animation rather than a zoom, return a value of CGRectZero, or leave this method unimplemented.

Availability

Available in iOS 4.2 and later.

Declared in

OLPreviewController.h

previewController:shouldOpenURL:forPreviewItem:

Called by the Quick Look preview controller before trying to open a URL.

```
- (B00L)previewController:(QLPreviewController *)controller
shouldOpenURL:(NSURL *)url
forPreviewItem:(id <QLPreviewItem>)item
```

Parameters

controller

The Quick Look preview controller that is asking the delegate to handle a user tap on a URL.

url

The URL, from the displayed preview, that the user tapped.

item

The item being displayed in the preview.

Return Value

A Boolean value indicating whether or not the URL indicated in the url parameter should be opened.

Discussion

This method comes into play when the user taps a URL link in a preview. If you return YES, the Quick Look preview controller invokes the openURL: method on the UIApplication object, sending it the value of the url parameter. If you return NO, the openURL: method is not invoked.

If you do not implement this method, it defaults to returning YES.

Availability

Available in iOS 4.0 and later.

Declared in

QLPreviewController.h

previewController:transitionImageForPreviewItem:contentRect:

Called when the Quick Look preview controller is about to be presented full screen or dismissed; used to provide a smooth transition when zooming. (required)

```
- (UIImage *)previewController:(QLPreviewController *)controller
transitionImageForPreviewItem:(id <QLPreviewItem>)item
contentRect:(CGRect *)contentRect
```

Parameters

controller

The Quick Look preview controller that is requesting the frame for the preview item.

item

The item to be previewed or dismissed.

contentRect

The rectangle within the image that represents the document content. For icons, for example, the document content rectangle is typically smaller than the icon rectangle itself.

Return Value

A UIImage object that the preview controller crossfades with when zooming.

Availability

Available in iOS 4.2 and later.

Declared in

QLPreviewController.h

previewControllerDidDismiss:

Called after the preview controller is closed.

- (void)previewControllerDidDismiss:(QLPreviewController *)controller

Parameters

controller

The Quick Look preview controller that just closed.

Availability

Available in iOS 4.0 and later.

Declared in

QLPreviewController.h

previewControllerWillDismiss:

Called before the preview controller is closed.

- (void)previewControllerWillDismiss:(QLPreviewController *)controller

Parameters

controller

The Quick Look preview controller that is about to close.

Availability

Available in iOS 4.0 and later.

Declared in

QLPreviewController.h

QLPreviewItem Protocol Reference for iOS

Conforms to	NSObject	
Framework	/System/Library/Frameworks/QuickLook.framework	
Availability	Available in iOS 4.0 and later.	
Declared in		

Overview

A Quick Look preview item must adopt the QLPreviewItem protocol to enable it to be displayed by a QLPreviewController (Quick Look preview controller) object.

The methods in this protocol are also declared as a category on the NSURL class. As a result, you can use NSURL objects directly as preview items—provided that you want to use the default titles of those items. A default title is the last path component of an item's URL. If you want to supply your own preview item titles, create your own preview item objects that adopt this protocol.

Tasks

Providing an Item URL

previewItemURL (page 22) property

The URL of the item to preview. (required)

Providing an Item Title

previewItemTitle (page 22) property

The preview item's title.

Properties

previewItemTitle

The preview item's title.

@property (readonly) NSString *previewItemTitle;

Discussion

This property is used by a Quick Look preview controller to get an item's title. In typical use, you would implement a getter method in your preview item class to provide this value.

If not nil, this value is used as the preview item title, replacing the default item title. The default title is the last path component of an item's URL.

Availability

Available in iOS 4.0 and later.

Declared in

OLPreviewItem.h

previewItemURL

The URL of the item to preview. (required)

@property (readonly) NSURL *previewItemURL;

Discussion

This property is used by a Quick Look preview controller to get an item's URL. In typical use, you would implement a getter method in your preview item class to provide this value.

The value of this property must be a file-type URL.

If the item is not available for preview, this property's getter method should return nil. In this case, the Quick Look preview controller displays a "loading" view.

Availability

Available in iOS 4.0 and later.

Declared in

QLPreviewItem.h

Document Revision History

This table describes the changes to Quick Look Framework Reference for iOS.

Date	Notes
2010-04-19	New document that describes the API for presenting item previews in iOS.

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