Image Kit Reference Collection

Graphics & Imaging > Quartz



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Image Kit Reference Collection

Framework System/Library/Frameworks/Quartz.framework

Header file directories Quartz.framework/ImageKit.framework

Declared inIKFilterBrowserPanel.h
IKFilterBrowserView.h

IKFilterUI.h IKFilterUIView.h IKImageBrowserView.h IKImageEditPanel.h IKImageView.h IKPictureTaker.h

IKSaveOptions.h IKSlideshow.h

Introduction

Important: This is a preliminary document for an API in development. Although this document has been reviewed for technical accuracy, it is not final. Apple Computer is supplying this information to help you plan for the adoption of the technologies and programming interfaces described herein. This information is subject to change, and software implemented according to this document should be tested with final operating system software and final documentation. Newer versions of this document may be provided with future seeds of the API. For information about updates to this and other developer documentation, view the New & Updated sidebars in subsequent seeds of the Reference Library.

The Image Kit framework is an image handling framework that's based on Quartz, Core Image, OpenGL, and Layer Kit. It defines a set of Objective-C classes that provide user interface support for:

- Finding, browsing, viewing, and editing images. The Image Kit framework builds on the NSView class to provide a view that is optimized for image operations such as rotating, zooming, scrolling, and dragging. Client applications can support powerful in-place editing with a minimum effort.
- Browsing, previewing, and setting input parameters for Core Image filters. The Image Kit framework extends the Core Image API by defining additions to the CIFilter class that make it easy for applications to present a user interface for a Core Image filter.

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- Extending the Save panel with options for saving images
- Showing slideshows

Introduction

INTRODUCTION

Image Kit Reference Collection

Classes

PART I

Classes

CIFilter Image Kit Additions

Inherits from NSObject
Conforms to NSCoding

NSCopying

NSObject (NSObject)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in IIKFilterUI.h

Companion guide Core Image Programming Guide

Overview

This Image Kit addition to the <code>CIFilter</code> class, introduced in Mac OS X v10.5, consists of one method and a set of constants that generate a view with input parameter controls for a Core Image filter. Using this method, it is easier for applications to present a user interface for a filter than it was in Mac OS X v10.4. Then, applications could create a filter user interface only by analyzing the keys and key attributes of a filter and then writing the code to implement the user interface.

You use the <code>viewForUIConfiguration:excludedKeys:</code> method to request a view from Core Image. The view is a subclass of the <code>NSView</code> class so that you can insert it easily into any other view as a subview or into an <code>NSWindow</code> object as a content view. Core Image automatically generates the view for you unless you implement the <code>IKFilterCustomUIProvider</code> protocol, in which case calling <code>viewForUIConfiguration:excludedKeys:</code> causes Core Image to provide your custom view.

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Tasks

Creating a View for a Filter

viewForUIConfiguration:excludedKeys: (page 12)

Returns a filter view for the filter.

Overview

Instance Methods

viewForUIConfiguration:excludedKeys:

Returns a filter view for the filter.

-(IKFilterUIView*)viewForUIConfiguration:(NSDictionary*)inUIConfiguration excludedKeys:(NSArray*)inKeys;

Parameters

inUIConfiguration

A dictionary that contains values for the <code>IKUISizeFlavor</code> and <code>kCIUIParameterSet</code> keys. See "User Interface Options" (page 13) for the constants that you can provide as values for <code>IKUISizeFlavor</code>. For <code>kCIUIParameterSet</code> you can provide one of the following values: <code>kCIUISetBasic</code>, <code>kCIUISetIntermediate</code>, <code>kCIUISetAdvanced</code>, or <code>kCIUISetDevelopment</code>. When you request a user interface for a parameter set, all keys for that set and below are included. For example, the advanced set consists of all parameters in the basic, intermediate and advanced sets. The development set should contain parameters that are either experimental or for debugging purposes. You should use them only during the development of filters and client applications, and not in a shipping product.

inKeys

An array of the input keys for which you do *not* want to provide a user interface. Pass nil if you want all input keys to be represented in the user interface.

Return Value

An IKFilterUIView object. You should retain the view as long as you need it, but make sure to release it when you no longer need it as the view is retaining the filter.

Discussion

Calling this method to receive a view for a filter causes the CIFilter class to invoke the provideViewForUIConfiguration:excludedKeys: (page 91) method. If you override provideViewForUIConfiguration:excludedKeys: the user interface is created by your filter subclass. Otherwise, Core Image automatically generates the user interface based on the filter keys and attributes.

The algorithm used to lay out the controls for a filter operates in a manner similar to the Core Image Fun House application (/Developer/Applications/Graphics Tools/). Applications can retrieve a view whose control sizes complement the size of user interface elements already used in the application. It is also possible to choose which filter input parameters appear in the view. Consumer applications, for example, may want to show a small, basic set of input parameters whereas professional applications may want to provide access to all input parameters.

The controls in the view use bindings to set the values of the filter. See *Cocoa Bindings Programming Topics* if you are unfamiliar with bindings.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterUI.h

Constants

User Interface Options

Keys or values for the size of the input parameter controls for a filter view.

```
NSString *IKUISizeFlavor;
NSString *IKUISizeMini;
NSString *IKUISizeSmall;
NSString *IKUISizeRegular;
NSString *IKUImaxSize;
NSString *IKUIFlavorAllowFallback;
```

Constants

IKUISizeFlavor

A key for the size of the controls in a filter view. The associated value can be <code>IKUISizeMini</code>, <code>IKUISizeSmall</code>, or <code>IKUISizeRegular</code>.

Available in Mac OS X v10.5 and later.

Declared in IKFilterUI.h.

IKUISizeMini

Controls whose size is mini, as defined by Interface Builder 2.5.

Available in Mac OS X v10.5 and later.

Declared in IKFilterUI.h.

IKUISizeSmall

Controls whose size is small, as defined by Interface Builder 2.5.

Available in Mac OS X v10.5 and later.

Declared in IKFilterUI.h.

IKUISizeRegular

Controls whose size is regular or normal, as defined by Interface Builder 2.5.

Available in Mac OS X v10.5 and later.

Declared in IKFilterUI.h.

IKUImaxSize

Controls whose dimensions are the maximum allowable for the filter view. A width or height of 0 indicates that that dimension of the view is not restricted. If the size requested is too small, the filter is expected to return a view as small as possible. It is up to the client to verify that the returned view fits into the context.

Available in Mac OS X v10.5 and later.

Declared in IKFilterUI.h.

IKUIFlavorAllowFallback

Substitute controls of another size. The associated value is a Boolean value. If the filter cannot provide a view for the requested size and a fallback is allowed, the filter can use controls of a different size.

Available in Mac OS X v10.5 and later.

Declared in IKFilterUI.h.

Declared In

IKFilterUI.h

CIFilter Image Kit Additions

IKFilterBrowserPanel Class Reference

Inherits from NSPanel: NSWindow: NSResponder: NSObject

Conforms to NSUserInterfaceValidations (NSWindow)

NSAnimatablePropertyContainer (NSWindow)

NSCoding (NSResponder) NSObject (NSObject)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKFilterBrowserPanel.h

Overview

The IKFilterBrowserPanel class provides a user interface that allows users to browse Core Image filters (CIFilter), to preview a filter, and to get additional information about the filter, such as its description.

An IKFilterBrowserPanel object can be displayed as:

- a separate panel, that is, a utility window that floats on top of document windows
- a modal dialog
- a sheet, that is, a dialog that is attached to its parent window and must be dismissed by the user
- a view that an application can insert into a custom user interface

An IKFilterBrowserPanel object can be configured through a style mask to use either the default or brushed metal look for windows. The size and number of visible controls are specified through an options dictionary. An IKFilterBrowserPanel object communicates selection changes through notifications.

The <code>IKFilterBrowserPanel</code> class allows the user to create filter collections that are stored with the <code>filterCollections</code> key in the <code>com.apple.CoreImageKit.plist</code> property list located in <code>~/Library/Preferences/.</code>

Overview 15

Tasks

Getting a Filter Name

- filterName (page 19)

Returns the name of the filter that is currently selected in the filter browser.

Displaying and Running the Panel

- filterBrowserViewWithOptions: (page 18)

Returns a view that contains a filter browser.

- beginWithOptions:modelessDelegate:didEndSelector:contextInfo: (page 18)

Displays the filter browser in a new utility window, unless the filter browser is already open.

beginSheetWithOptions:modalForWindow:modalDelegate:didEndSelector:contextInfo: (page 17)

Displays the filter browser in a sheet—that is, a dialog that is attached to its parent window and must be dismissed by the user.

- runModalWithOptions: (page 20)

Displays the filter browser in a modal dialog that must be dismissed by the user but that is not attached to a window.

- finish: (page 19)

Closes a filter browser view.

Creating a Filter Browser Panel

+ filterBrowserPanelWithStyleMask: (page 16)

Creates a shared instance of the IKFilterBrowserPanel class.

Class Methods

filterBrowserPanelWithStyleMask:

Creates a shared instance of the IKFilterBrowserPanel class.

+ (id)filterBrowserPanelWithStyleMask:(unsigned int)styleMask;

Parameters

styleMask

A mask that specifies whether to use the default or brushed metal look for the window. You can select or deselect the <code>NSTexturedBackgroundWindowMask</code> style bit.

Return Value

The shared instance.

IKFilterBrowserPanel Class Reference

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterBrowserPanel.h

Instance Methods

beginSheetWithOptions:modalForWindow:modalDelegate:didEndSelector:contextInfo:

Displays the filter browser in a sheet—that is, a dialog that is attached to its parent window and must be dismissed by the user.

- (void)beginSheetWithOptions:(NSDictionary*)inOptions modalForWindow:(NSWindow *)docWindow modalDelegate:(id)modalDelegate didEndSelector:(SEL)didEndSelector contextInfo:(void *)contextInfo:

Parameters

inOptions

A dictionary of options that describe the configuration to use for the filter browser user interface. For the possible keys you can supply see "Filter Browser Option Keys" (page 20) and the constant IKUISizeFlavor.

modalForWindow

The parent window for the dialog.

modalDelegate

The object that will invoke the selector didEndSelector when the filter browser session terminates.

didEndSelector

The selector to invoke when the filter browser session terminates.

contextInfo

Any data that must be passed as an argument to the delegate through <code>didEndSelector</code> after the filter browser session terminates.

Discussion

When the filter browser session ends, didEndSelector is invoked on the modeless delegate, passing contextInfo as an argument. The selector didEndSelector must have the following signature:

```
- (void)openPanelDidEnd:(NSOpenPanel *)panel returnCode:(int)returnCode
contextInfo:(void *)contextInfo
```

The returnCode value passed to the selector is set to NSOKButton if the user validates, or to NSCancelButton if the user cancels.

Availability

Available in Mac OS X v10.5 and later.

See Also

- beginWithOptions:modelessDelegate:didEndSelector:contextInfo: (page 18)
- runModalWithOptions (page 20)

Instance Methods 17

Declared In

IKFilterBrowserPanel.h

begin With Options: modeless Delegate: did End Selector: context Info:

Displays the filter browser in a new utility window, unless the filter browser is already open.

- (void)beginWithOptions:(NSDictionary*)inOptions
modelessDelegate:(id)modelessDelegate didEndSelector:(SEL)didEndSelector
contextInfo:(void *)contextInfo;

Parameters

inOptions

A dictionary of options that describe the configuration to use for the filter browser user interface. For the possible keys you can supply see "Filter Browser Option Keys" (page 20) and the constant IKUISizeFlavor.

modelessDelegate

 $The \ object \ that \ will \ invoke \ the \ selector \ \ did \ End \ Selector \ when \ the \ filter \ browser \ session \ terminates.$

didEndSelector

The selector to invoke when the filter browser session terminates.

contextInfo

Any data that must be passed as an argument to the delegate through didEndSelector after the filter browser session terminates.

Discussion

When the filter browser session ends, didEndSelector is invoked on the modeless delegate, passing contextInfo as an argument. The selector didEndSelector must have the following signature:

- (void)openPanelDidEnd:(NSOpenPanel *)panel returnCode:(int)returnCode contextInfo:(void *)contextInfo

The returnCode value passed to the selector is set to NSOKButton if the user validates, or to NSCancelButton if the user cancels.

Availability

Available in Mac OS X v10.5 and later.

See Also

- beginSheetWithOptions:modalForWindow:modalDelegate:didEndSelector:contextInfo: (page 17)
- runModalWithOptions (page 20)

Declared In

IKFilterBrowserPanel.h

filter Browser View With Options:

Returns a view that contains a filter browser.

- (IKFilterBrowserView*)filterBrowserViewWithOptions:(NSDictionary*)inOptions;

IKFilterBrowserPanel Class Reference

Parameters

inOptions

A dictionary of options that describe the configuration to use for the filter browser user interface. For the possible keys you can supply see "Filter Browser Option Keys" (page 20) and the constant IKUISizeFlavor.

Return Value

A filter browser view that is configured as specified.

Discussion

Use this method to add a view that contains the filter browser to your custom user interface. To dismiss the filter browser view, invoke the finish (page 19) method.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterBrowserPanel.h

filterName

Returns the name of the filter that is currently selected in the filter browser.

- (NSString*)filterName;

Return Value

The name of the currently selected filter.

Discussion

Use this method in response to the notifications IKFilterBrowserFilterSelectedNotification (page 22) or IKFilterBrowserFilterDoubleClickNotification (page 22), or after the user makes a choice in a dialog.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterBrowserPanel.h

finish:

Closes a filter browser view.

- (void)finish:(id)sender;

Parameters

sender

The object that invokes the action, such as an OK or Cancel button.

Discussion

Invoke this action when you want to dismiss the filter browser.

Availability

Available in Mac OS X v10.5 and later.

Instance Methods 19

IKFilterBrowserPanel Class Reference

See Also

- filterBrowserViewWithOptions (page 18)

Declared In

IKFilterBrowserPanel.h

runModalWithOptions:

Displays the filter browser in a modal dialog that must be dismissed by the user but that is not attached to a window.

- (int)runModalWithOptions:(NSDictionary*)inOptions;

Parameters

inOptions

A dictionary of options that describe the configuration to use for the filter browser user interface. For the possible keys you can supply see "Filter Browser Option Keys" (page 20) and the constant IKUISizeFlavor.

Return Value

Either NSOKButton if the user validates, or NSCancel Button if the user cancels.

Availability

Available in Mac OS X v10.5 and later.

See Also

- beginSheetWithOptions:modalForWindow:modalDelegate:didEndSelector:contextInfo: (page
 17)
- beginWithOptions:modelessDelegate:didEndSelector:contextInfo: (page 18)

Declared In

IKFilterBrowserPanel.h

Constants

Filter Browser Option Keys

Keys for filter browser options.

IKFilterBrowserPanel Class Reference

```
NSString *const IKFilterBrowserDefaultInputImage;
NSString *const IKFilterBrowserExcludeCategories;
NSString *const IKFilterBrowserExcludeFilters;
NSString *const IKFilterBrowserShowCategories;
NSString *const IKFilterBrowserShowPreview;
```

Constants

IKFilterBrowserDefaultInputImage

The key for the default input image. The associated value is the CIImage object to use as the default input image for the filter preview. Setting the image to nil causes Image Kit to use the image supplied by the framework. You can also set the input image and other parameters during the notification IKFilterBrowserWillPreviewFilterNotification (page 21).

Available in Mac OS X v10.5 and later.

Declared in IKFilterBrowserPanel.h.

IKFilterBrowserExcludeCategories

The key for excluding filter categories. The associated value is an NSArray object that lists the categories that you do *not* want to display in the filter browser.

Available in Mac OS X v10.5 and later.

Declared in IKFilterBrowserPanel.h.

IKFilterBrowserExcludeFilters

The key for excluding filters. The associated value is an NSArray object that lists the filters that you do *not* want to display in the filter browser.

Available in Mac OS X v10.5 and later.

Declared in IKFilterBrowserPanel.h.

IKFilterBrowserShowCategories

The key for showing categories. The associated value is a BOOL value that determines if the filter browser should show the category list.

Available in Mac OS X v10.5 and later.

Declared in IKFilterBrowserPanel.h.

IKFilterBrowserShowPreview

The associated value is a BOOL value that determines if the filter browser should provide a preview.

Available in Mac OS X v10.5 and later.

Declared in IKFilterBrowserPanel.h.

Declared In

IKFilterBrowserPanel.h

Notifications

IKFilterBrowserWillPreviewFilterNotification

Posted before showing a filter preview, allowing an application to set the parameters of a filter.

The selected filter is sent as the object in the notification.

Availability

Available in Mac OS X v10.5 and later.

Notifications 21

IKFilterBrowserPanel Class Reference

Declared In

IKFilterBrowserPanel.h

IKFilterBrowserFilterSelectedNotification

Posted when the user clicks a filter name in the filter browser.

The name of the selected filter is sent as the object in the notification.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterBrowserPanel.h

IKFilter Browser Filter Double Click Notification

Posted when the user double-clicks a filter in the filter browser.

The name of the selected filter is send as the object in the notification.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterBrowserPanel.h

IKFilterBrowserView Class Reference

Inherits from NSView: NSResponder: NSObject

Conforms to NSAnimatablePropertyContainer (NSView)

NSCoding (NSResponder) NSObject (NSObject)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKFilterBrowserView.h

Overview

The IKFilterBrowserView class is used as a container for the elements of an IKFilterBrowserPanel object.

Tasks

Setting the Preview State

setPreviewState: (page 24)Sets the preview state.

Getting the Filter Name

- filterName (page 23)

Returns the name of the filter that is currently selected in the filter browser.

Instance Methods

filterName

Returns the name of the filter that is currently selected in the filter browser.

Overview 23

IKFilterBrowserView Class Reference

(NSString*)filterName;

Return Value

The name of the currently selected filter.

Discussion

Use this method in response to the notifications IKFilterBrowserFilterSelectedNotification (page 22) or IKFilterBrowserFilterDoubleClickNotification (page 22), or after the user makes a choice in a dialog.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterBrowserView.h

setPreviewState:

Sets the preview state.

- (void)setPreviewState:(BOOL)inState;

Parameters

inState

A state (YES or NO) that represents whether a preview is visible.

Discussion

Use this method to show and hide the preview programmatically.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterBrowserView.h

IKFilterUIView Class Reference

Inherits from NSView: NSResponder: NSObject

Conforms to NSAnimatablePropertyContainer (NSView)

NSCoding (NSResponder) NSObject (NSObject)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKFilterUIView.h

Overview

The IKFilterUIView class provides a view that contains input parameter controls for a Core Image filter (CIFilter). You need to use this class when providing a user interface for a custom filter. The class creates a view that has an object controller for the given filter. It also retains the filter.

Tasks

Creating and Initializing a Filter UI View

```
+ viewWithFrame:filter: (page 26)
```

Creates a view that contains controls for the input parameters of a filter.

- initWithFrame:filter: (page 26)

Initializes a view that contains controls for the input parameters of a filter.

Getting Data from the Filter View

- filter (page 26)

Returns the Core Image filter associated with the view.

objectController (page 27)

Returns the object controller for the bindings between the filter and its view.

Overview 25

Class Methods

viewWithFrame:filter:

Creates a view that contains controls for the input parameters of a filter.

```
+ (id)viewWithFrame:(NSRect)frameRect filter:(CIFilter *)inFilter
```

Parameters

frameRect

The rectangle that defines the area of the view.

inFilter

A Core Image filter. The view retains the filter.

Return Value

An IKFilterUIView object that contains controls for the input parameters of the provided filter.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- initWithFrame:filter: (page 26)
```

Declared In

IKFilterUIView.h

Instance Methods

filter

Returns the Core Image filter associated with the view.

```
- (CIFilter *)filter
```

Return Value

The Core Image filter associated with the view.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterUIView.h

initWithFrame:filter:

Initializes a view that contains controls for the input parameters of a filter.

```
- (id)initWithFrame:(NSRect)frameRect filter:(CIFilter *)inFilter
```

IKFilterUIView Class Reference

Parameters

frameRect

The rectangle that defines the area of the view.

inFilter

A Core Image filter. The view retains the filter.

Return Value

The IKFilterUIView object initialized with controls for the input parameters of the provided filter.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
+ viewWithFrame:filter: (page 26)
```

Declared In

IKFilterUIView.h

objectController

Returns the object controller for the bindings between the filter and its view.

```
- (NSObjectController *)objectController
```

Return Value

The object controller for the bindings between the filter and its view.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterUIView.h

Instance Methods 2006-12-06 | © 2004, 2006 Apple Computer, Inc. All Rights Reserved.

IKFilterUIView Class Reference

IKImageBrowserView Class Reference

Inherits from NSView: NSResponder: NSObject

Conforms to NSAnimatablePropertyContainer (NSView)

NSCoding (NSResponder) NSObject (NSObject)

Framework /System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKImageBrowserView.h

Overview

The IKImageBrowserView class is a view for displaying and browsing a large amount of images and movies efficiently.

Tasks

Initializing and Setting Up an Image Browser View

```
- initWithFrame: (page 37)
```

Initializes a newly allocated image browser view with the provided frame rectangle.

- setDataSource: (page 42)

Sets the data source of the receiver.

- dataSource (page 35)

Returns the data source of the receiver.

- reloadData (page 38)

Marks the receiver as needing its data reloaded.

- setDelegate: (page 42)

Sets the delegate of the receiver.

- delegate (page 35)

Returns the delegate of the receiver.

Overview 29

Setting the Appearance

```
- setCellsStyleMask: (page 41)
```

Defines the appearance style of the cells.

- cellsStyleMask (page 33)

Returns the appearance style mask for the cell.

- setConstrainsToOriginalSize: (page 41)

Sets whether the receiver constrains the cell's image to its original size.

- constrainsToOriginalSize (page 34)

Returns whether the receiver constrains the cell's image to its original size.

Zooming and Resizing

```
- setZoomValue: (page 43)
```

Sets the zoom value.

zoomValue (page 44)

Returns the current zoom value.

- setContentResizingMask: (page 41)

Determines how the receiver resizes its content when zooming.

- contentResizingMask (page 34)

Returns the receiver's content resizing mask, which determines how its content is resized while zooming.

Scrolling

```
- scrollIndexToVisible: (page 38)
```

Scrolls the receiver to the item at the specified index.

Setting and Getting Cell Size

```
- setCellSize: (page 40)
```

Sets the cell size.

- cellSize (page 33)

Returns the cell size.

Getting Item Information

```
- indexOfItemAtPoint: (page 37)
```

Returns the index of the item at the specified location.

- itemFrameAtIndex: (page 38)

Returns the frame rectangle for the item located at the specified index.

Reordering and Groups Items

```
- selectionIndexes (page 39)
```

Returns the indexes of the selected cells.

- setSelectionIndexes:byExtendingSelection: (page 43)

Selects cells at the specified indexes.

- setAllowsMultipleSelection: (page 39)

Controls whether the user can select more than one cell at a time.

- allowsMultipleSelection (page 32)

Returns whether multiple selections are allowed.

- setAllowsEmptySelection: (page 39)

Controls whether an empty selection is allowed.

- allowsEmptySelection (page 32)

Returns whether an empty selection is allowed.

- setAllowsReordering: (page 40)

Controls whether the user can reorder items.

- allowsReordering (page 32)

Returns whether the user can reorder items.

- setAnimates: (page 40)

Controls whether the receiver animates reordering and changes of the data source.

- animates (page 33)

Returns whether the receiver animates reordering and changes of the data source.

expandGroupAtIndex: (page 36)

Expands a group at the specified index.

- collapseGroupAtIndex: (page 34)

Collapses a group at the specified index.

- isGroupExpandedAtIndex: (page 37)

Returns whether the group at the provided index is expanded.

Supporting Drag and Drop

```
- setDraggingDestinationDelegate: (page 42)
```

Sets the dragging destination delegate of the receiver.

- draggingDestinationDelegate (page 35)

Returns the dragging destination delegate of the receiver.

indexAtLocationOfDroppedItem (page 36)

Returns the index of the cell where the drop operation occurred.

Instance Methods

allows Empty Selection

Returns whether an empty selection is allowed.

```
- (BOOL) allowsEmptySelection;
```

Return Value

YES if the receiver allows an empty selection; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setAllowsEmptySelection: (page 39)
```

Declared In

IKImageBrowserView.h

allowsMultipleSelection

Returns whether multiple selections are allowed.

```
- (BOOL) allowsMultipleSelection;
```

Return Value

YES if the receiver allows the user to select more than one cell at a time; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setAllowsEmptySelection: (page 39)
```

Declared In

IKImageBrowserView.h

allowsReordering

Returns whether the user can reorder items.

```
- (BOOL) allows Reordering;
```

Return Value

YES if the user can reorder items; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

IKImageBrowserView Class Reference

See Also

```
- setAllowsReordering: (page 40)
```

Declared In

IKImageBrowserView.h

animates

Returns whether the receiver animates reordering and changes of the data source.

```
- (BOOL) animates;
```

Return Value

YES if the receiver animates reordering and changes of the data source; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setAnimates: (page 40)
```

Declared In

IKImageBrowserView.h

cellSize

Returns the cell size.

```
- (NSSize) cellSize;
```

Return Value

The current size for the cells in the image browser view.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

cellsStyleMask

Returns the appearance style mask for the cell.

```
- (NSUInteger) cellsStyleMask;
```

Return Value

The appearance style mask for the cell.

Availability

Available in Mac OS X v10.5 and later.

Instance Methods 2006-12-06 | © 2004, 2006 Apple Computer, Inc. All Rights Reserved.

IKImageBrowserView Class Reference

See Also

```
- setCellsStyleMask: (page 41)
```

Declared In

IKImageBrowserView.h

collapseGroupAtIndex:

Collapses a group at the specified index.

```
- (void) collapseGroupAtIndex:(NSUInteger) index;
```

Parameters

index

The index of the group you want to collapse.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
expandGroupAtIndex: (page 36)isGroupExpandedAtIndex: (page 37)
```

Declared In

IKImageBrowserView.h

constrains To Original Size

Returns whether the receiver constrains the cell's image to its original size.

```
- (BOOL) constrainsToOriginalSize;
```

Return Value

NO if the image is not constrained; otherwise YES.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setConstrainsToOriginalSize: (page 41)
```

Declared In

IKImageBrowserView.h

contentResizingMask

Returns the receiver's content resizing mask, which determines how its content is resized while zooming.

```
- (NSUInteger) contentResizingMask;
```

Return Value

The content resizing mask.

IKImageBrowserView Class Reference

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setContentResizingMask: (page 41)
```

Declared In

IKImageBrowserView.h

dataSource

Returns the data source of the receiver.

```
- (id ) dataSource;
```

Return Value

The data source (IKImageBrowserDataSource). The data source is not retained by the receiver.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setDataSource: (page 42)
```

Declared In

IKImageBrowserView.h

delegate

Returns the delegate of the receiver.

```
- (id) delegate;
```

Return Value

The delegate.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setDelegate: (page 42)
```

Declared In

IKImageBrowserView.h

dragging Destination Delegate

Returns the dragging destination delegate of the receiver.

- (id) draggingDestinationDelegate;

IKImageBrowserView Class Reference

Return Value

The receiver's dragging destination delegate.

Availability

Available in Mac OS X v10.5 and later.

See Also

- setDraggingDestinationDelegate: (page 42)

Declared In

IKImageBrowserView.h

expandGroupAtIndex:

Expands a group at the specified index.

(void) expandGroupAtIndex:(NSUInteger) index;

Parameters

index

The index of the group you want to expand.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
collapseGroupAtIndex: (page 34)isGroupExpandedAtIndex: (page 37)
```

Declared In

IKImageBrowserView.h

index At Location Of Dropped Item

Returns the index of the cell where the drop operation occurred.

- (NSUInteger) indexAtLocationOfDroppedItem;

Return Value

The index of the cell where the drop operation occurred.

Discussion

The returned index is valid until the next drop occurs.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

indexOfItemAtPoint:

Returns the index of the item at the specified location.

```
- (NSInteger) indexOfItemAtPoint: (NSPoint)point;
```

Parameters

point

The location of the item.

Return Value

The index of the item or NSNotFound if no item at this location.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

initWithFrame:

Initializes a newly allocated image browser view with the provided frame rectangle.

```
- (id) initWithFrame:(NSRect) frame;
```

Parameters

frame

The rectangle for the image browser.

Return Value

The initialized object.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

is Group Expanded At Index:

Returns whether the group at the provided index is expanded.

```
- (BOOL) isGroupExpandedAtIndex:(NSUInteger) index;
```

Parameters

index

The index you want to check.

Return Value

YES if the group is expanded; NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

Instance Methods

IKImageBrowserView Class Reference

See Also

```
expandGroupAtIndex: (page 36)collapseGroupAtIndex: (page 34)
```

Declared In

IKImageBrowserView.h

itemFrameAtIndex:

Returns the frame rectangle for the item located at the specified index.

```
- (NSRect) itemFrameAtIndex: (NSInteger)index;
```

Parameters

index

The index of the item whose frame rectangle you want to obtain.

Return Value

The frame rectangle of the item.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

reloadData

Marks the receiver as needing its data reloaded.

```
- (void) reloadData;
```

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

scrollIndexToVisible:

Scrolls the receiver to the item at the specified index.

```
(void) scrollIndexToVisible:(NSInteger) index;
```

Parameters

index

The index of the item to scroll to.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

selectionIndexes

Returns the indexes of the selected cells.

```
- (NSIndexSet *) selectionIndexes:
```

Return Value

The indexes of the selected cells.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setSelectionIndexes:byExtendingSelection: (page 43)
```

Declared In

IKImageBrowserView.h

setAllowsEmptySelection:

Controls whether an empty selection is allowed.

```
- (void) setAllowsEmptySelection: (BOOL) flag;
```

Parameters

flag

A BOOL value that specifies whether to allow an empty selection.

Availability

Available in Mac OS X v10.5 and later.

See Also

allowsEmptySelection (page 32)

Declared In

IKImageBrowserView.h

setAllowsMultipleSelection:

Controls whether the user can select more than one cell at a time.

```
- (void) setAllowsMultipleSelection: (BOOL) flag;
```

Parameters

flag

A BOOL value that specifies whether to allow multiple selections.

Availability

Available in Mac OS X v10.5 and later.

See Also

- allowsMultipleSelection (page 32)

IKImageBrowserView Class Reference

Declared In

IKImageBrowserView.h

setAllowsReordering:

Controls whether the user can reorder items.

```
- (void) setAllowsReordering: (BOOL) flag;
```

Parameters

flag

A BOOL value that specifies whether the user can reorder items.

Availability

Available in Mac OS X v10.5 and later.

See Also

- allows Reordering (page 32)

Declared In

IKImageBrowserView.h

setAnimates:

Controls whether the receiver animates reordering and changes of the data source.

```
- (void) setAnimates: (BOOL) flag;
```

Parameters

flag

A BOOL value that specifies whether the receiver animates reordering and changes of the data source.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- animates (page 33)
```

Declared In

IKImageBrowserView.h

setCellSize:

Sets the cell size.

```
- (void) setCellSize:(NSSize) size;
```

Parameters

size

The size to set.

Availability

Available in Mac OS X v10.5 and later.

IKImageBrowserView Class Reference

Declared In

IKImageBrowserView.h

setCellsStyleMask:

Defines the appearance style of the cells.

- (void) setCellsStyleMask:(NSUInteger) mask;

Parameters

mask

An integer bit mask. A mask can be specified by combining any of the options described in "Cell Appearance Style Masks" (page 44) using the C bitwise OR operator.

Availability

Available in Mac OS X v10.5 and later.

See Also

- cellsStyleMask (page 33)

Declared In

IKImageBrowserView.h

setConstrainsToOriginalSize:

Sets whether the receiver constrains the cell's image to its original size.

```
(void) setConstrainsToOriginalSize: (BOOL) flag;
```

Parameters

flag

A flag that specifies whether to constrain the image. The default value is NO.

Availability

Available in Mac OS X v10.5 and later.

See Also

- constrainsToOriginalSize (page 34)

Declared In

IKImageBrowserView.h

set Content Resizing Mask:

Determines how the receiver resizes its content when zooming.

(void) setContentResizingMask:(NSUInteger) mask;

Parameters

mask

A resizing mask. You specify a mask by combining any of the following options using the C bitwise OR operator: NSViewWidthSizable, NSViewHeightSizable. Other values are ignored.

Instance Methods 41

IKImageBrowserView Class Reference

Availability

Available in Mac OS X v10.5 and later.

See Also

- contentResizingMask (page 34)

Declared In

IKImageBrowserView.h

setDataSource:

Sets the data source of the receiver.

```
- (void) setDataSource:(id) source;
```

Parameters

source

A data source (IKImageBrowserDataSource).

Availability

Available in Mac OS X v10.5 and later.

See Also

- dataSource (page 35)

Declared In

IKImageBrowserView.h

setDelegate:

Sets the delegate of the receiver.

```
- (void) setDelegate: (id) aDelegate;
```

Parameters

aDelegate

The delegate must implement the <code>IKImageBrowserDelegate</code> informal protocol.

Availability

Available in Mac OS X v10.5 and later.

See Also

- delegate (page 35)

Declared In

IKImageBrowserView.h

setDraggingDestinationDelegate:

Sets the dragging destination delegate of the receiver.

```
- (void) setDraggingDestinationDelegate:(id) delegate;
```

IKImageBrowserView Class Reference

Parameters

delegate

The delegate (NSDraggingDestination) to set.

Availability

Available in Mac OS X v10.5 and later.

See Also

- draggingDestinationDelegate (page 35)

Declared In

IKImageBrowserView.h

setSelectionIndexes:byExtendingSelection:

Selects cells at the specified indexes.

 (void) setSelectionIndexes:(NSIndexSet *) indexes byExtendingSelection:(B00L) extendSelection;

Parameters

indexes

The indexes of the cells you want to select.

extendSelection

A B00L value that specifies whether to extend the current selection. Pass YES to extends the selection; N0 replaces the current selection.

Availability

Available in Mac OS X v10.5 and later.

See Also

- selectionIndexes (page 39)

Declared In

IKImageBrowserView.h

setZoomValue:

Sets the zoom value.

- (void) setZoomValue:(float)aValue;

Parameters

aValue

The zoom value. This value should be greater or equal to zero and less or equal than one. A zoom value of zero corresponds to the minimum size (40x40 pixels). A zoom value of one means images fits the browser bounds. Other values are interpolated.

Availability

Available in Mac OS X v10.5 and later.

See Also

- zoomValue (page 44)

Instance Methods 43

IKImageBrowserView Class Reference

Declared In

IKImageBrowserView.h

zoomValue

Returns the current zoom value.

```
- (float) zoomValue;
```

Return Value

The zoom value.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setZoomValue: (page 43)
```

Declared In

IKImageBrowserView.h

Constants

Cell Appearance Style Masks

Masks for the appearance style bit field.

Constants

```
IKCellsStyleNone
```

No style.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKCellsStyleShadowed

Cells use shadows.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKCellsStyleOutlined

Cells are outlined.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

```
IKCellsStyleTitled
      Cells display a title.
      Available in Mac OS X v10.5 and later.
      Declared in IKImageBrowserView.h.
IKCellsStyleSubtitled
```

Cells display a subtitle.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

Declared In

IKImageBrowserView.h

Group Style Attributes

Attributes for the group style.

```
enum{
    IKGroupBezelStyle,
    IKGroupDisclosureStyle,
};
```

Constants

```
IKGroupBezelStyle
```

A bezel style.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKGroupDisclosureStyle

A disclosure triangle.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

Discussion

These constants affect the appearance of a group.

Declared In

IKImageBrowserView.h

View Options Keys

Keys for image browser view options.

IKImageBrowserView Class Reference

```
NSString * const IKImageBrowserBackgroundColorKey;
NSString * const IKImageBrowserSelectionColorKey;
NSString * const IKImageBrowserCellsOutlineColorKey;
NSString * const IKImageBrowserCellsTitleAttributesKey;
NSString * const IKImageBrowserCellsHighlightedTitleAttributesKey;
NSString * const IKImageBrowserCellsSubtitleAttributesKey;
```

Constants

IKImageBrowserBackgroundColorKey

A key for the background color of the image browser view. The associated value is an NSColor object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

 $IKImage Browser Selection {\tt ColorKey}$

A key for the color that indicates a selection. The associated value is an NSColor object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImageBrowserCellsOutlineColorKey

A key for the outline color for an item in the image browser view. The associated value is an NSColor object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImageBrowserCellsTitleAttributesKey

A key for title attribute of an item in the image browser view. The associated value is an NSDictionary object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKI mage Browser Cells Highlighted Title Attributes Key

A key for the highlighted title attribute for an item in the image browser view. The associated value is an NSDictionary object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

 ${\tt IKImageBrowserCellsSubtitleAttributesKey}$

A key for a subtitle attribute for an item in the image browser view. The associated value is an NSDictionary object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

Discussion

You can set and retrieve values for these keys using the methods setValue: forKey and valueForKey:.

Declared In

IKImageBrowserView.h

Group Keys

Keys for group attributes.

IKImageBrowserView Class Reference

```
NSString * const IKImageBrowserGroupRangeKey;
NSString * const IKImageBrowserGroupBackgroundColorKey;
NSString * const IKImageBrowserGroupTitleKey;
NSString * const IKImageBrowserGroupStyleKey;
```

Constants

IKImageBrowserGroupRangeKey

A key for the range of a group. The associated value is an NSValue object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImageBrowserGroupBackgroundColorKey

A key for the background color of a group. The associated value is an NSColor object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImageBrowserGroupTitleKey

A key for the title of a group. The associated value is an NSString object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImageBrowserGroupStyleKey

A key for the style of a group. The associated value is one of the constants defined in "Group Style Attributes" (page 45).

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

Declared In

IKImageBrowserView.h

Constants 47

IKImageBrowserView Class Reference

IKImageEditPanel Class Reference

Inherits from NSPanel: NSWindow: NSResponder: NSObject

Conforms to NSUserInterfaceValidations (NSWindow)

NSAnimatablePropertyContainer (NSWindow)

NSCoding (NSResponder) NSObject (NSObject)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKImageEditPanel.h

Overview

The <code>IKImageEditPanel</code> class provides a panel, that is, a utility window that floats on top of document windows, optimized for image editing.

Tasks

Creating an Image Editing Panel

+ sharedImageEditPanel (page 50)

Creates a shared instance of an image editing panel.

Getting, Setting, and Reloading Data

- setDataSource: (page 51)

Sets a data source for an image editing panel.

- dataSource (page 50)

Returns the data source associated with an image editing panel.

- reloadData (page 50)

Reloads the data from the data associated with an image editing panel.

Overview 49

Class Methods

shared Image Edit Panel

Creates a shared instance of an image editing panel.

```
+ (IKImageEditPanel*) sharedImageEditPanel;
```

Return Value

An IKImageEditPanel object.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageEditPanel.h

Instance Methods

dataSource

Returns the data source associated with an image editing panel.

```
- (id)dataSource;
```

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setDataSource: (page 51)
```

Declared In

IKImageEditPanel.h

reloadData

Reloads the data from the data associated with an image editing panel.

```
(void)reloadData;
```

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageEditPanel.h

IKImageEditPanel Class Reference

setDataSource:

Sets a data source for an image editing panel.

- (void)setDataSource: (id<IKImageEditPanelDataSource>)dataSource;

Availability

Available in Mac OS X v10.5 and later.

See Also

- dataSource (page 50)

Declared In

IKImageEditPanel.h

Instance Methods 2006-12-06 | © 2004, 2006 Apple Computer, Inc. All Rights Reserved.

IKImageEditPanel Class Reference

IKImageView Class Reference

Inherits from NSView: NSResponder: NSObject

Conforms to NSAnimatablePropertyContainer (NSView)

NSCoding (NSResponder) NSObject (NSObject)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKImageView.h

Overview

The <code>IKImageView</code> class provides an efficient way to display images in a view while at the same time supporting a number of image editing operations such as rotating, zooming, and cropping. It supports drag and drop, so that the user can drag an image to the view. If possible, image rendering uses hardware acceleration to achieve optimal performance. The <code>IKImageView</code> class is implemented as a subclass of <code>NSView</code>. Similar to <code>NSImageView</code>, the <code>IKImageView</code> class is used to display a single image.

You can provide an images for the view in any of these formats:

- File reference (NSURL, CFURLRef, or a path)
- CGImageSourceRef
- Data (NSData or CFDataRef)
- Image (NSImage, CGImageRef, or CIImage)

Providing a file reference is the preferred way to set the the image for a view because in addition to the actual image data, <code>IKImageView</code> also handles the image metadata embedded in the file. The image view automatically fetches the metadata from a file reference, whereas for the other sources (except for a <code>CGImageSourceRef</code> source), it cannot. For images set from other sources, you need to set the metadata separately.

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IKImageView supports multi-frame images (TIFF, GIF, and so forth) and animated images.

Overview

Tasks

Getting and Setting Image View Characteristics

```
delegate (page 57) property
      Specifies the delegate object of the receiver.
  zoomFactor (page 59) property
      Specifies the zoom factor for the image view.
  rotationAngle (page 58) property
      Specifies the rotation angle for the image view.
  currentToolMode (page 56) property
      Specifies the current tool mode for the image view.
  autoresizes (page 56) property
      Specifies the automatic resizing state for the image view.
  hasHorizontalScroller (page 57) property
      Specifies the horizontal scroll bar state for the image view.
  has Vertical Scroller (page 58) property
      Specifies the vertical scroll bar state for the image view.
  autohidesScrollers (page 56) property
      Specifies the automatic-hiding scroll bar state for the image view.
  supportsDragAndDrop (page 58) property
      Specifies the drag-and-drop support state for the image view.
  editable (page 57) property
      Specifies the editable state for the image view.
  doubleClickOpensImageEditPanel (page 57) property
      Specifies the image-opening state of the editing pane in the image view.
  imageCorrection (page 58) property
      Specifies a Core Image filter for image correction.
  backgroundColor (page 56) property
      Specifies the background color for the image view.
- imageSize (page 62)
      Returns the size of the image in the image view.
- imageProperties (page 62)
      Returns the metadata for the image in the view.
```

Getting and Setting Images

```
    image (page 61)
        Returns the image associated with the view, after any image corrections.

    setImage:imageProperties: (page 64)
        Sets the image to display in an image view.
```

```
    setImageWithURL: (page 64)
    Initializes an image view with the image specified by a URL.
```

Manipulating the Image in a View

```
    setRotationAngle:centerPoint: (page 65)
    Sets the rotation angle at the provided origin.
```

- setImageZoomFactor:centerPoint: (page 64)

Sets the zoom factor at the provided origin.

- zoomImageToFit: (page 66)

Zooms the image so that it fits in the image view.

- zoomImageToActualSize: (page 66)

Zooms the image so that it is displayed using its true size.

- zoomImageToRect: (page 66)

Zooms the image so that it fits in the specified rectangle.

- flipImageHorizontal: (page 61)

Flips an image along the horizontal axis.

- flipImageVertical: (page 61)

Flips an image along the vertical axis.

Working With Core Animation

```
    set0verlay:forType: (page 65)
    Sets an overlay type for a Core Animation layer.
    overlayForType: (page 62)
    Returns the Core Animation layer associated with a layer type.
```

Scrolling

```
    scrollToPoint: (page 63)
    Scrolls the view to the specified point.
    scrollToRect: (page 63)
    Scrolls the view so that it includes the provided rectangular area.
```

Converting Points and Rectangles

```
- convertViewPointToImagePoint: (page 60)
```

Converts an image view coordinate to an image coordinate.

- convertViewRectToImageRect: (page 60)

Converts an image view rectangle to an image rectangle.

- convertImagePointToViewPoint: (page 59)

Converts an image coordinate to an image view coordinate.

```
- convertImageRectToViewRect: (page 59)
```

Converts an image rectangle to an image view rectangle.

Properties

For more about Objective-C properties, see "Properties" in The Objective-C 2.0 Programming Language.

autohidesScrollers

Specifies the automatic-hiding scroll bar state for the image view.

@property BOOL autohidesScrollers;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

autoresizes

Specifies the automatic resizing state for the image view.

@property BOOL autoresizes;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

back ground Color

Specifies the background color for the image view.

```
@property NSColor * backgroundColor;
```

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

currentToolMode

Specifies the current tool mode for the image view.

IKImageView Class Reference

@property NSString* currentToolMode;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

delegate

Specifies the delegate object of the receiver.

@property id delegate;

Discussion

An IKImageView object's delegate is inserted in the responder chain after the image view itself and is informed of various actions by the image view through delegation messages.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

double Click Opens I mage Edit Panel

Specifies the image-opening state of the editing pane in the image view.

@property BOOL doubleClickOpensImageEditPanel;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

editable

Specifies the editable state for the image view.

@property BOOL editable;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

hasHorizontalScroller

Specifies the horizontal scroll bar state for the image view.

IKImageView Class Reference

@property BOOL hasHorizontalScroller;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

hasVerticalScroller

Specifies the vertical scroll bar state for the image view.

@property BOOL hasVerticalScroller;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

imageCorrection

Specifies a Core Image filter for image correction.

@property CIFilter * imageCorrection;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

rotationAngle

Specifies the rotation angle for the image view.

@property CGFloat rotationAngle;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

supports Drag And Drop

Specifies the drag-and-drop support state for the image view.

IKImageView Class Reference

@property BOOL supportsDragAndDrop;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

zoomFactor

Specifies the zoom factor for the image view.

@property CGFloat zoomFactor;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

Instance Methods

convertImagePointToViewPoint:

Converts an image coordinate to an image view coordinate.

- (NSPoint)convertImagePointToViewPoint: (NSPoint)imagePoint;

Parameters

imagePoint

A point specified in coordinates relative to the image.

Return Value

A point specified in coordinates relative to the image view.

Availability

Available in Mac OS X v10.5 and later.

See Also

- convertViewPointToImagePoint: (page 60)

Declared In

IKImageView.h

convertImageRectToViewRect:

Converts an image rectangle to an image view rectangle.

- (NSRect)convertImageRectToViewRect: (NSRect)imageRect;

Instance Methods

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Parameters

imageRect

An rectangle specified in coordinates relative to the image.

Return Value

An rectangle specified in coordinates relative to the image view.

Availability

Available in Mac OS X v10.5 and later.

See Also

convertViewRectToImageRect: (page 60)

Declared In

IKImageView.h

convertViewPointToImagePoint:

Converts an image view coordinate to an image coordinate.

- (NSPoint)convertViewPointToImagePoint: (NSPoint)viewPoint;

Parameters

viewPoint

A point specified in coordinates relative to the image view.

Return Value

The point specified in coordinates relative to the image.

Availability

Available in Mac OS X v10.5 and later.

See Also

- convertImagePointToViewPoint: (page 59)

Declared In

IKImageView.h

convertViewRectToImageRect:

Converts an image view rectangle to an image rectangle.

- (NSRect)convertViewRectToImageRect: (NSRect)viewRect;

Parameters

viewRect

An rectangle specified in coordinates relative to the image view.

Return Value

The rectangle specified in coordinates relative to the image.

Availability

Available in Mac OS X v10.5 and later.

IKImageView Class Reference

See Also

```
- convertImageRectToViewRect: (page 59)
```

Declared In

IKImageView.h

flipImageHorizontal:

Flips an image along the horizontal axis.

```
- (void)flipImageHorizontal: (id)sender;
```

Parameters

sender

The object initiating the action.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- flipImageVertical: (page 61)
```

Declared In

IKImageView.h

flipImageVertical:

Flips an image along the vertical axis.

```
- (void)flipImageVertical: (id)sender;
```

Parameters

sender

The object initiating the action.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- flipImageHorizontal: (page 61)
```

Declared In

IKImageView.h

image

Returns the image associated with the view, after any image corrections.

```
- (CGImageRef)image;
```

Return Value

The image.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
setImage:imageProperties: (page 64)setImageWithURL: (page 64)
```

Declared In

IKImageView.h

imageProperties

Returns the metadata for the image in the view.

- (NSDictionary*)imageProperties;

Return Value

A dictionary of metadata that specifies the image properties.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

imageSize

Returns the size of the image in the image view.

```
- (NSSize)imageSize;
```

Return Value

The size of the image.

Discussion

The image size changes whenever an image is rotates or cropped.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageView.h

overlayForType:

Returns the Core Animation layer associated with a layer type.

```
- (CALayer*)overlayForType: (NSString*)layerType;
```

Parameters

```
layerType
```

```
A layer type. See "Overlay Types" (page 68).
```

IKImageView Class Reference

Return Value

The Core Animation layer.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setOverlay:forType: (page 65)
```

Declared In

IKImageView.h

scrollToPoint:

Scrolls the view to the specified point.

```
- (void)scrollToPoint:(NSPoint)point;
```

Parameters

point

The point to scroll to.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- scrollToRect: (page 63)
```

Declared In

IKImageView.h

scrollToRect:

Scrolls the view so that it includes the provided rectangular area.

```
- (void)scrollToRect:(NSRect)rect;
```

Parameters

rect

The rectangular area to include in the view.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- scrollToPoint: (page 63)
```

Declared In

IKImageView.h

setImage:imageProperties:

Sets the image to display in an image view.

```
- (void)setImage: (CGImageRef)image imageProperties: (NSDictionary*)metaData;
```

Parameters

image

The image to set.

metaData

A dictionary that contains metadata that describes the image.

Availability

Available in Mac OS X v10.5 and later.

See Also

- image (page 61)
- imageProperties (page 62)
- setImageWithURL: (page 64)

Declared In

IKImageView.h

setImageWithURL:

Initializes an image view with the image specified by a URL.

```
- (void)setImageWithURL: (NSURL*)url;
```

Parameters

ur1

The URL that specifies the location of the image.

Discussion

This method is the preferred initializer for RAW images. If you use this method for a TIFF file that contains multiple images, only the first image is displayed.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setImage:imageProperties: (page 64)
```

Declared In

IKImageView.h

setImageZoomFactor:centerPoint:

Sets the zoom factor at the provided origin.

```
- (void)setImageZoomFactor: (CGFloat)zoomFactor centerPoint: (NSPoint)centerPoint;
```

Parameters

zoomFactor

The zoom factor to apply to the image.

centerPoint

The point that specifies the origin of the zoom factor.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
@property zoomFactor (page 59)
```

Declared In

IKImageView.h

setOverlay:forType:

Sets an overlay type for a Core Animation layer.

```
- (void)setOverlay: (CALayer*)layer forType: (NSString*)layerType;
```

Parameters

layer

A Core Animation layer object.

layerType

```
A layer type. See "Overlay Types" (page 68).
```

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- overlayForType: (page 62)
```

Declared In

IKImageView.h

setRotationAngle:centerPoint:

Sets the rotation angle at the provided origin.

```
- (void)setRotationAngle: (CGFloat)rotationAngle centerPoint: (NSPoint)centerPoint;
```

Parameters

rotationAngle

The rotation angle to apply to the image.

centerPoint

The point that specifies the origin of the rotation angle.

Availability

Available in Mac OS X v10.5 and later.

Instance Methods 2006-12-06 | © 2004, 2006 Apple Computer, Inc. All Rights Reserved.

See Also

```
@property rotationAngle (page 58)
```

Declared In

IKImageView.h

zoomImageToActualSize:

Zooms the image so that it is displayed using its true size.

```
- (void)zoomImageToActualSize: (id)sender;
```

Parameters

sender

The object initiating the action.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
zoomImageToFit: (page 66)zoomImageToRect: (page 66)
```

Declared In

IKImageView.h

zoomlmageToFit:

Zooms the image so that it fits in the image view.

```
- (void)zoomImageToFit: (id)sender;
```

Parameters

sender

The object initiating the action.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
zoomImageToActualSize: (page 66)zoomImageToRect: (page 66)
```

Declared In

IKImageView.h

zoomlmageToRect:

Zooms the image so that it fits in the specified rectangle.

```
- (void)zoomImageToRect: (NSRect)rect;
```

Parameters

rect

The rectangle to fit the image in.

Availability

Available in Mac OS X v10.5 and later.

See Also

- zoomImageToFit: (page 66)
- zoomImageToActualSize: (page 66)

Declared In

IKImageView.h

Constants

Tool Modes

Image Kit tools modes.

```
NSString *const IKToolModeMove;
NSString *const IKToolModeSelect;
NSString *const IKToolModeCrop;
NSString *const IKToolModeRotate;
NSString *const IKToolModeAnnotate;
```

Constants

IKToolModeMove

The move tool.

Available in Mac OS X v10.5 and later.

Declared in IKImageView.h.

IKToolModeSelect

The selection tool.

Available in Mac OS X v10.5 and later.

Declared in IKImageView.h.

IKToolModeCrop

The crop tool.

Available in Mac OS X v10.5 and later.

Declared in IKImageView.h.

IKToolModeRotate

The rotation tool.

Available in Mac OS X v10.5 and later.

Declared in IKImageView.h.

IKToolModeAnnotate

The annotation tool.

Available in Mac OS X v10.5 and later.

Declared in IKImageView.h.

IKImageView Class Reference

Declared In

IKImageView.h

Overlay Types

A layer level.

NSString *const IKOverlayTypeBackground; NSString *const IKOverlayTypeImage;

Constants

IKOverlayTypeBackground

A background.

Available in Mac OS X v10.5 and later.

Declared in IKImageView.h.

IKOverlayTypeImage

An image.

Available in Mac OS X v10.5 and later.

Declared in IKImageView.h.

Declared In

IKImageView.h

IKPictureTaker Class Reference

Inherits from NSPanel: NSWindow: NSResponder: NSObject

Conforms to NSUserInterfaceValidations (NSWindow)

NSAnimatablePropertyContainer (NSWindow)

NSCoding (NSResponder) NSObject (NSObject)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKPictureTaker.h

Overview

The IKPictureTaker class represents a panel that allows users to choose images by browsing the file system. The picture taker panel provides an Open Recent menu, supports image cropping, and supports taking snapshots from an iSight or other digital camera.

Tasks

Getting and Setting Images

- setInputImage: (page 73)

Set the image input for the picture taker.

- inputImage (page 72)

Returns the input image associated with the picture taker.

outputImage (page 72)

Returns the edited image.

Managing the Picture Taker

+ pictureTaker (page 70)

Returns a shared IKPictureTaker instance, creating it if necessary.

beginPictureTakerSheetForWindow:withDelegate:didEndSelector:contextInfo: (page 70)
 Opens a picture taker as a sheet whose parent is the specified window.

Overview
2006 12 06 | 2004 2006 Apple Computer Inc. All Bights Recognised

- beginPictureTakerWithDelegate:didEndSelector:contextInfo: (page 71)
 Opens a picture taker pane.
- popUpRecentsMenuForView:withDelegate:didEndSelector:contextInfo: (page 73)

Displays the Open Recent popup menu associated with the picture taker.

- runModal (page 73)

Opens a modal picture taker dialog.

Getting and Setting Mirroring

```
- setMirroring: (page 74)
```

Controls whether the receiver enables video mirroring during snapshots.

- mirroring (page 72)

Returns whether video mirroring is enabled during snapshots.

Class Methods

pictureTaker

Returns a shared IKPictureTaker instance, creating it if necessary.

+ (IKPictureTaker *) pictureTaker;

Return Value

An IKPictureTaker object.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKPictureTaker.h

Instance Methods

begin Picture Taker Sheet For Window: with Delegate: did End Selector: context Info:

Opens a picture taker as a sheet whose parent is the specified window.

(void) beginPictureTakerSheetForWindow:(NSWindow *)aWindow withDelegate:(id)
delegate didEndSelector:(SEL) didEndSelector contextInfo:(void *) contextInfo;

Parameters

aWindow

The parent window of the picture taker sheet.

delegate

The object that will invoke the selector didEndSelector when the picture taker session terminates.

IKPictureTaker Class Reference

didEndSelector

The selector to invoke when the picture taker session terminates.

contextInfo

Any data that must be passed as an argument to the delegate through didEndSelector after the picture taker session terminates.

Discussion

The didEndSelector method should have the following signature:

- (void)pictureTakerDidEnd:(IKPictureTaker *)sheet returnCode:(NSInteger)returnCode contextInfo:(void *)contextInfo;

The returnCode value is set to NSOKButton if the user validates, or to NSCancel Button if the user cancels.

Availability

Available in Mac OS X v10.5 and later.

See Also

beginPictureTakerWithDelegate:didEndSelector:contextInfo: (page 71)

Declared In

IKPictureTaker.h

beginPictureTakerWithDelegate:didEndSelector:contextInfo:

Opens a picture taker pane.

- (void) beginPictureTakerWithDelegate:(id) delegate didEndSelector:(SEL) didEndSelector contextInfo:(void *) contextInfo;

Parameters

delegate

The object that will invoke the selector <code>didEndSelector</code> when the picture taker session terminates.

didEndSelector

The selector to invoke when the picture taker session terminates.

contextInfo

Any data that must be passed as an argument to the delegate through didEndSelector after the picture taker session terminates.

Discussion

The didEndSelector method should have the following signature:

- (void)pictureTakerDidEnd:(IKPictureTaker *)sheet returnCode:(NSInteger)returnCode
contextInfo:(void *)contextInfo:

The returnCode value is set to NSOKButton if the user validates, or to NSCance1Button if the user cancels.

Availability

Available in Mac OS X v10.5 and later.

See Also

- beginPictureTakerSheetForWindow:withDelegate:didEndSelector:contextInfo: (page 70)

Instance Methods 71

Declared In

IKPictureTaker.h

inputlmage

Returns the input image associated with the picture taker.

```
- (NSImage*) inputImage;
```

Return Value

The input image.

Discussion

The input image is never modified by the picture taker.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setInputImage: (page 73)
```

Declared In

IKPictureTaker.h

mirroring

Returns whether video mirroring is enabled during snapshots.

```
- (BOOL) mirroring;
```

Return Value

Returns YES if video mirroring is enabled, NO otherwise.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKPictureTaker.h

outputImage

Returns the edited image.

```
- (NSImage*) outputImage;
```

Return Value

The edited image.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKPictureTaker.h

pop Up Recents Menu For View: with Delegate: did End Selector: context Info:

Displays the Open Recent popup menu associated with the picture taker.

- (void) popUpRecentsMenuForView:(NSView *) aView withDelegate:(id) delegate didEndSelector:(SEL) didEndSelector contextInfo:(void *) contextInfo;

Parameters

delegate

The object that will invoke the selector <code>didEndSelector</code> when the picture taker session terminates. <code>didEndSelector</code>

The selector to invoke when the picture taker session terminates.

contextInfo

Any data that must be passed as an argument to the delegate through didEndSelector after the picture taker session terminates.

Discussion

The didEndSelector method should have the following signature:

- (void)pictureTakerDidEnd:(IKPictureTaker *)sheet returnCode:(NSInteger)returnCode contextInfo:(void *)contextInfo;

The returnCode value is set to NSOKButton if the user validates, or to NSCancelButton if the user cancels.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKPictureTaker.h

runModal

Opens a modal picture taker dialog.

- (NSInteger) runModal;

Return Value

Returns NSOKButton if the user edits or chooses an image; NSCancelButton if the user cancels or does not change the default image.

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Availability

Available in Mac OS X v10.5 and later.

Declared In

IKPictureTaker.h

setInputImage:

Set the image input for the picture taker.

- (void) setInputImage:(NSImage *) image;

Instance Methods

IKPictureTaker Class Reference

Parameters

image

An NSImage object.

Discussion

The input image is never modified by the picture taker.

Availability

Available in Mac OS X v10.5 and later.

See Also

- inputImage (page 72)

Declared In

IKPictureTaker.h

setMirroring:

Controls whether the receiver enables video mirroring during snapshots.

```
- (void) setMirroring:(BOOL)b;
```

Parameters

b

The default setting is YES.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKPictureTaker.h

Constants

Picture Taker Keys

Keys for customizing the picture taker appearance and behavior.

```
NSString *const IKPictureTakerAllowsVideoCaptureKey;
NSString *const IKPictureTakerAllowsFileChoosingKey;
NSString *const IKPictureTakerShowRecentPictureKey;
NSString *const IKPictureTakerUpdateRecentPictureKey;
NSString *const IKPictureTakerAllowsEditingKey;
NSString *const IKPictureTakerShowEffectsKey;
NSString *const IKPictureTakerInformationalTextKey;
NSString *const IKPictureTakerImageTransformsKey;
NSString *const IKPictureTakerOutputImageMaxSizeKey;
NSString *const IKPictureTakerCropAreaSizeKey;
NSString *const IKPictureTakerShowAddressBookPictureKey;
NSString *const IKPictureTakerShowEmptyPictureKey;
```

Constants

IKPictureTakerAllowsVideoCaptureKey

A key for allowing video capture. The associated value is an NSNumber value (BOOL) whose default value is YES.

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

IKPictureTakerAllowsFileChoosingKey

A key for allowing the user to choose a file. The associated value is an NSNumber object that contains a BOOL value whose default value is YES.

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

IKPictureTakerUpdateRecentPictureKey

A key for allowing a recent picture to be updated. The associated value is an NSNumber object that contains a BOOL value whose default value is YES.

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

IKPictureTakerAllowsEditingKev

A key for allowing image editing. The associated value is an NSNumber object that contains a BOOL value whose default value is YES.

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

IKPictureTakerShowEffectsKey

A key for showing effects. The associated value is an NSNumber object that contains a BOOL value whose default value is NO.

Available in Mac OS X v10.5 and later.

 $\begin{tabular}{ll} \textbf{Declared in} & \texttt{IKPictureTaker.h.} \\ \end{tabular}$

IKPictureTakerInformationalTextKey

A key for informational text. The associated value is an NSString or NSAttributedString object whose default value is "Drag Image Here".

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

IKPictureTakerImageTransformsKey

A n image transformation key. The associated value is an NSDictionary object that can be serialized.

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

IKPictureTaker Class Reference

IKPictureTakerOutputImageMaxSizeKey

A key for the maximum size of the output image. The associated value is an NSValue object (NSSize).

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

IKPictureTakerCropAreaSizeKey

A key for the cropping area size. The associated value is an NSValue object (NSSize).

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

IKPictureTakerShowAddressBookPictureKey

A key for showing the address book picture. The associated value is a Boolean value packages as an NSNumber object. The default value is NO. If set to YES, the picture taker automatically adds the address book image for the Me user at the end of the Recent Pictures pop-up menu.

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

IKPictureTakerShowEmptyPictureKey

A key for showing an empty picture. The associated value is an NSImage object. The default value is nil. If set to an image, the picture taker automatically shows an image at the end of the Recent Pictures pop-up menu. that means "no picture."

Available in Mac OS X v10.5 and later.

Declared in IKPictureTaker.h.

Discussion

You can set picture taker options using setValue: forKey (NSKeyValueCoding).

Declared In

IKPictureTaker.h

IKSaveOptions Class Reference

Inherits from NSObject

Conforms to NSObject (NSObject)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKSaveOptions.h

Overview

The IKSaveOptions class initializes, adds, and manages user interface options for saving image data.

Tasks

Initializing and Adding Options

- initWithImageProperties:imageUTType: (page 79)
 Initializes a save options accessory pane for the provided image properties and uniform type identifier.
- addSaveOptionsAccessoryViewToSavePanel: (page 78)

Adds a save options accessory view to a save panel.

Retrieving User Settings

- imageProperties (page 78)

Returns a dictionary of image properties that reflects the user's selection.

imageUTType (page 78)

Returns the uniform type identifier that reflects the user's selection.

- userSelection (page 79)

Returns a dictionary that contains the save options selected by the user.

Overview 77

Instance Methods

add Save Options Accessory View To Save Panel:

Adds a save options accessory view to a save panel.

- (void)addSaveOptionsAccessoryViewToSavePanel: (NSSavePanel*)savePanel;

Parameters

savePane1

The panel you want to extend.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSaveOptions.h

imageProperties

Returns a dictionary of image properties that reflects the user's selection.

```
- (NSDictionary *)imageProperties;
```

Return Value

A dictionary of updated image properties.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSaveOptions.h

imageUTType

Returns the uniform type identifier that reflects the user's selection.

```
- (NSString *)imageUTType;
```

Return Value

A string that specifies the uniform type identifier of the selection.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSaveOptions.h

initWithImageProperties:imageUTType:

Initializes a save options accessory pane for the provided image properties and uniform type identifier.

- (id)initWithImageProperties: (NSDictionary*)imageProperties imageUTType: (NSString*)imageUTType;

Parameters

imageProperties

A dictionary of image properties.

imageUTType

A string that specifies a uniform type identifier, such as JPEG. See *Uniform Type Identifiers Overview*.

Return Value

The initialized object.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSaveOptions.h

userSelection

Returns a dictionary that contains the save options selected by the user.

- (NSDictionary *)userSelection;

Return Value

A dictionary of save options.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSaveOptions.h

Instance Methods 2006-12-06 | © 2004, 2006 Apple Computer, Inc. All Rights Reserved.

IKSaveOptions Class Reference

IKSlideshow Class Reference

Inherits from NSObject

Conforms to NSObject (NSObject)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKSlideshow.h

Overview

The IKSlideshow class encapsulates a data source and options for a slideshow.

Tasks

Getting Slideshow Data

indexOfCurrentSlideshowItem (page 84)

Returns the index of the current slideshow item.

Reloading Data

```
- reloadData (page 84)
```

Reloads the data for a slideshow.

- reloadSlideshowItemAtIndex: (page 84)

Reloads the data for a slideshow, starting at the specified index.

Exporting Slideshow Items

```
+ canExportToApplication: (page 82)
```

Finds out whether the slideshow can export its contents to an application.

+ exportSlideshowItem:toApplication: (page 83)

Exports a slideshow item to the application that has the provided bundle identifier.

Overview 81

Creating a Shared Instance of a Slideshow

+ sharedSlideshow (page 83)

Returns a shared instance of a slideshow.

Running and Stopping a Slideshow

```
- runSlideshowWithDataSource:inMode:options: (page 85)
```

Runs a slideshow that contains the specified kind of items, provided from a data source.

- stopSlideshow: (page 85)

Stops a slideshow.

autoPlayDelay (page 82) property

Controls the interval of time before a slideshow starts to play automatically.

Properties

For more about Objective-C properties, see "Properties" in *The Objective-C 2.0 Programming Language*.

autoPlayDelay

Controls the interval of time before a slideshow starts to play automatically.

@property NSTimeInterval autoPlayDelay;

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

Class Methods

canExportToApplication:

Finds out whether the slideshow can export its contents to an application.

+ (BOOL)canExportToApplication:(NSString *)applicationBundleIdentifier

Parameters

applicationBundleIdentifier

The bundle identifier of the application that you want to export the slideshow to. See "Bundle Identifiers" (page 85).

Return Value

YES if the slideshow can be exported to the specified application; NO otherwise.

IKSlideshow Class Reference

Availability

Available in Mac OS X v10.5 and later.

See Also

```
+ exportSlideshowItem:ToApplication: (page 83)
```

Declared In

IKSlideshow.h

exportSlideshowItem:toApplication:

Exports a slideshow item to the application that has the provided bundle identifier.

```
+ (void)exportSlideshowItem:(id)item toApplication:(NSString *)applicationBundleIdentifier
```

Parameters

item

The item to export

applicationBundleIdentifier

The bundle identifier of the application that you want to export the item to.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
+ canExportToApplication: (page 82)
```

Declared In

IKSlideshow.h

sharedSlideshow

Returns a shared instance of a slideshow.

```
+ (IKSlideshow *)sharedSlideshow
```

Return Value

A slideshow object.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

Class Methods 2006-12-06 | © 2004, 2006 Apple Computer, Inc. All Rights Reserved.

Instance Methods

indexOfCurrentSlideshowItem

Returns the index of the current slideshow item.

- (NSUInteger)indexOfCurrentSlideshowItem

Return Value

The index of the current item in the slideshow.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

reloadData

Reloads the data for a slideshow.

- (void)reloadData

Availability

Available in Mac OS X v10.5 and later.

See Also

- reloadSlideshowItemAtIndex: (page 84)

Declared In

IKSlideshow.h

reloadSlideshowItemAtIndex:

Reloads the data for a slideshow, starting at the specified index.

- (void)reloadSlideshowItemAtIndex:(NSUInteger) index

Parameters

index

The index that species where to reload the slideshow data.

Availability

Available in Mac OS X v10.5 and later.

See Also

- reloadData (page 84)

Declared In

IKSlideshow.h

runSlideshowWithDataSource:inMode:options:

Runs a slideshow that contains the specified kind of items, provided from a data source.

 (void)runSlideshowWithDataSource:(id < IKSlideshowDataSource >)dataSource inMode:(NSString *)slideshowMode options:(NSDictionary *)slideshowOptions

Parameters

dataSource

The data source to use for the slideshow.

slideshowMode

A constant that indicate what kind of items are in the slideshow—IKSlideshowModeImages, IKSlideshowModePDF, or IKSlideshowModeQuickLook. See "Slideshow Modes" (page 86).

slideshowOptions

A dictionary of slideshow options. See "Slideshow Option Keys" (page 86).

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

stopSlideshow:

Stops a slideshow.

- (void)stopSlideshow:(id)sender

Parameters

sender

The object sending the message to stop the slideshow.

Discussion

This method is invoked when the user clicks a button or issues a stop command.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

Constants

Bundle Identifiers

Identifiers for exporting slideshow items to an application.

IKSlideshow Class Reference

```
NSString *const IK_iPhotoBundleIdentifier;
```

Constants

IK_iPhotoBundleIdentifier

The iPhoto application—com.apple.iPhoto.

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

Declared In

IKSlideshow.h

Slideshow Modes

The kind of items in the slideshow.

```
extern NSString *const IKSlideshowModeImages;
extern NSString *const IKSlideshowModePDF;
extern NSString *const IKSlideshowModeOther;
```

Constants

IKS1ideshowModeImages

All items in the slideshow are images.

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

IKS1ideshowModePDF

All items in the slideshow are PDF documents.

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

IKSlideshowModeOther

There are a mixture of items in the slideshow (image, PDF, text, HTML, and so on).

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

Declared In

IKSlideshow.h

Slideshow Option Keys

Keys for slideshow options.

IKSlideshow Class Reference

```
NSString *const IKSlideshowWrapAround;
NSString *const IKSlideshowStartPaused;
NSString *const IKSlideshowStartIndex;
NSString *const IKSlideshowPDFDisplayBox;
NSString *const IKSlideshowPDFDisplayMode;
NSString *const IKSlideshowPDFDisplaysAsBook;
```

Constants

IKS1ideshowWrapAround

A key for starting the slideshow over after the last slide shows. The associated value is a Boolean data type.

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

IKSlideshowStartPaused

A key for starting in a paused state. The associated value is a Boolean data type.

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

IKSlideshowStartIndex

A key for the slideshow item index. The associated value is an index.

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

IKSlideshowPDFDisplayBox

A key for the PDF display box. The associated value is a type of display box, such as kPDFDisplayBoxMediaBox or kPDFDisplayBoxMediaBox. See *PDFPage Class Reference* for more information.

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

IKSlideshowPDFDisplayMode

A key for the PDF display mode. The associated value is a PDF display mode constant, such as kPDFDisplaySinglePage or kPDFDisplayTwoUp. See PDFView Class Reference for more information.

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

IKSlideshowPDFDisplaysAsBook

A key for displaying the slideshow as a book. The associated value is a Boolean data type.

Available in Mac OS X v10.5 and later.

Declared in IKSlideshow.h.

Declared In

IKSlideshow.h

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IKSlideshow Class Reference

Protocols

PART II

Protocols

IKFilterCustomUIProvider Protocol Reference

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKFilterUI.h

Overview

The IKFilterCustomUIProvider protocol is an addition to the CIFilter class that defines a method for providing a view for a filter. This protocol is implemented by any filter that provides its own user interface.

Tasks

Providing a Custom View

- provideViewForUIConfiguration:excludedKeys: (page 91)

Provides a custom view for a filter.

Instance Methods

provideViewForUIConfiguration:excludedKeys:

Provides a custom view for a filter.

 $\hbox{-(IKFilterUIView*)} provide View For UIC on figuration: (NSD ictionary*) in UIC on figuration excluded Keys: (NSArray*) in Keys$

Parameters

in UIC on figuration

A dictionary that specifies the size of the controls. Provide the key <code>IKUISizeFlavor</code> and one of the following values: <code>IKUISizeMini,IKUISizeSmall</code>, or <code>IKUISizeRegular</code>. For more information on these constants, see <code>User Interface Options</code> in <code>CIFilter Image Kit Additions</code>.

inKeys

An array of the input keys for which you do *not* want to provide a user interface. Pass nil if you want all input keys to be represented in the user interface.

Overview 91

IKFilterCustomUIProvider Protocol Reference

Return Value

An IKFilterUIView object or nil if the filter is unable to provide a view. If nil, the Image Kit framework will attempt to provide a user interface.

Discussion

This method overrides the method viewForUIConfiguration:excludedKeys: (page 12).

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKFilterUI.h

IKImageBrowserDataSource Protocol Reference

(informal protocol)

Adopted by IKImageBrowserView

Framework / System/Library/Frameworks/Quartz.framework/ImageKit.framework

Declared in ImageKit/IKImageBrowserView.h

Overview

The <code>IKImageBrowserDataSource</code> informal protocol declares the methods that an instance of the <code>IKImageBrowserView</code> class uses to access the contents of its data source object.

Tasks

Providing Information About Items (Required)

- numberOfItemsInImageBrowser: (page 97)
 - Returns the number of records managed by the data source object.
- imageBrowser:itemAtIndex: (page 94)

Returns an object for the item in an image browser view that corresponds to the specified index.

Supporting Item Editing (Optional)

- imageBrowser:removeItemsAtIndexes: (page 95)
 - Signals that a remove operation should be applied to the specified items.
- imageBrowser:moveItemsAtIndexes:toIndex: (page 95)
 - Signals that the specified items should be moved to the specified destination.
- imageBrowser:writeItemsAtIndexes:toPasteboard: (page 96)
 - Signals that a drag should begin.

Providing Information About Groups (Optional)

numberOfGroupsInImageBrowser: (page 96)

Returns the number of groups in an image browser view.

Overview 93

IKImageBrowserDataSource Protocol Reference

imageBrowser:groupAtIndex: (page 94)
 Returns the group at the specified index.

Instance Methods

imageBrowser:groupAtIndex:

Returns the group at the specified index.

 (NSDictionary *) imageBrowser:(IKImageBrowserView *) aBrowser groupAtIndex:(NSUInteger) index;

Parameters

aBrowser

An image browser view.

index

The index of the group you want to retrieve.

Return Value

A dictionary that defines the group. The keys in this dictionary can be any of the following constants: IKImageBrowserGroupStyle, IKImageBrowserGroupBackgroundColorKey, IKImageBrowserGroupTitleKey, and IKImageBrowserGroupRangeKey. For more information on these constants, see *IKImageBrowserView Class Reference*.

Discussion

This method is optional.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageBrowser:itemAtIndex:

Returns an object for the item in an image browser view that corresponds to the specified index.

- (id) imageBrowser:(IKImageBrowserView *) aBrowser itemAtIndex:(NSUInteger)index;

Parameters

aBrowser

An image browser view.

index

The index of the item you want to retrieve.

Return Value

An IKImageBrowserItem **object.**

IKImageBrowserDataSource Protocol Reference

Discussion

Your data source must implement this method. The returned object must implement the required methods of the <code>IKImageBrowserItem</code> protocol.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageBrowser:moveItemsAtIndexes:toIndex:

Signals that the specified items should be moved to the specified destination.

 (B00L) imageBrowser:(IKImageBrowserView *) aBrowser moveItemsAtIndexes: (NSIndexSet *)indexes toIndex:(NSUInteger)destinationIndex;

Parameters

aBrowser

An image browser view.

indexes

The indexes of the items that should be reordered.

destinationIndex

The starting index of the destination the items should be moved to.

Return Value

YES if successful; NO otherwise.

Discussion

This method is optional. It is invoked by the image browser view after Image Kit determines that a reordering operation should be applied. The data source should update itself by reordering its elements.

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- setAllowsReordering: (page 40)
```

Declared In

IKImageBrowserView.h

imageBrowser:removeItemsAtIndexes:

Signals that a remove operation should be applied to the specified items.

```
- (void) imageBrowser:(IKImageBrowserView *) aBrowser
removeItemsAtIndexes:(NSIndexSet *) indexes:
```

Parameters

aBrowser

An image browser view.

Instance Methods 95

IKImageBrowserDataSource Protocol Reference

indexes

The indexes of the items that should be removed.

Discussion

This method is optional. It is invoked by the image browser after Image Kit determines that a remove operation should be applied. In response, the data source should update itself by removing the specified items.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

image Browser: write Items At Indexes: to Pasteboard:

Signals that a drag should begin.

```
    (NSUInteger) imageBrowser:(IKImageBrowserView *) aBrowser
writeItemsAtIndexes:(NSIndexSet *) itemIndexes toPasteboard:(NSPasteboard *)pasteboard;
```

Parameters

aBrowser

An image browser view.

itemIndexes

The indexes of the items that should be dragged.

pasteboard

The pasteboard to copy the items to.

Return Value

The number of items written to the pasteboard.

Discussion

This method is optional. It is invoked after Image Kit determines that a drag should begin, but before the drag has been started.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

number Of Groups In Image Browser:

Returns the number of groups in an image browser view.

- (NSUInteger) numberOfGroupsInImageBrowser:(IKImageBrowserView *) aBrowser;

Parameters

aBrowser

An image browser view.

Return Value

The number of groups.

IKImageBrowserDataSource Protocol Reference

Discussion

This method is optional.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

number Of Items In Image Browser:

Returns the number of records managed by the data source object.

- (NSUInteger) numberOfItemsInImageBrowser:(IKImageBrowserView *) aBrowser;

Parameters

aBrowser

An image browser view.

Return Value

The number of records managed by the image browser view.

Discussion

Your data source must implement this method. An IKImageView object uses this method to determine how many cells it should create and display.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

Instance Methods 97

IKImageBrowserDataSource Protocol Reference

IKImageBrowserDelegate Protocol Reference

(informal protocol)

Adopted by IKImageBrowserView

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Declared in ImageKit/IKImageBrowserView.h

Overview

The <code>IKImageBrowserDelegate</code> is an informal protocol for the delegate of an <code>IKImageBrowserView</code> object. You can implement these methods to perform custom tasks when in response to events in the image browser view.

Tasks

Performing Custom Tasks in Response to User Events

- imageBrowser:backgroundWasRightClickedWithEvent: (page 99)
 Performs custom tasks when the user right-clicks the image browser view background.
- imageBrowser:cellWasRightClickedAtIndex:withEvent: (page 100)

Performs custom tasks when the user right-clicks an item in the image browser view.

- imageBrowser:cellWasDoubleClickedAtIndex: (page 100)

Performs custom tasks when the user double-clicks an item in the image browser view.

- imageBrowserSelectionDidChange: (page 101)

Performs custom tasks when the selection changes.

Instance Methods

imageBrowser:backgroundWasRightClickedWithEvent:

Performs custom tasks when the user right-clicks the image browser view background.

- (void) imageBrowser:(IKImageBrowserView *) aBrowser backgroundWasRightClickedWithEvent:(NSEvent *) event;

Overview 99

IKImageBrowserDelegate Protocol Reference

Parameters

aBrowser

An image browser view.

event

The event that invoked the method.

Discussion

This method signals that the user either right-clicked the background or left-clicked it with the Alt key pressed. You can implement this method if you want to perform custom tasks at that time.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageBrowser:cellWasDoubleClickedAtIndex:

Performs custom tasks when the user double-clicks an item in the image browser view.

```
- (void) imageBrowser:(IKImageBrowserView *) aBrowser
cellWasDoubleClickedAtIndex:(NSUInteger) index;
```

Parameters

aBrowser

An image browser view.

index

The index of the cell.

Discussion

This method signals that the user double-clicked an item in the image browser view. You can implement this method if you want to perform custom tasks at that time.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

image Browser: cell Was Right Clicked At Index: with Event:

Performs custom tasks when the user right-clicks an item in the image browser view.

```
- (void) imageBrowser:(IKImageBrowserView *) aBrowser
cellWasRightClickedAtIndex:(NSUInteger) index withEvent:(NSEvent *) event;
```

Parameters

aBrowser

An image browser view.

index

The index of the cell.

IKImageBrowserDelegate Protocol Reference

event

The event that invoked the method.

Discussion

This method signals that the user either right-clicked an item in the browser or left-clicked the item with the Alt key pressed. You can implement this method if you want to perform custom tasks at that time.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageBrowserSelectionDidChange:

Performs custom tasks when the selection changes.

- (void) imageBrowserSelectionDidChange:(IKImageBrowserView *) aBrowser;

Parameters

aBrowser

An image browser view.

Discussion

This method signals that the user changes the selection in the image browser view. You can implement this method if you want to perform custom tasks at that time.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

Instance Methods 101

IKImageBrowserDelegate Protocol Reference

IKImageBrowserItem Protocol Reference

(informal protocol)

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Declared in ImageKit/IKImageBrowserView.h

Overview

The <code>IKImageBrowserItem</code> informal protocol declares the methods that an instance of the <code>IKImageBrowserView</code> class uses to access the contents of its data source for a given item. Some of the methods in this protocol are needed frequently, so you should implement them efficiently.

Tasks

Providing Required Information for an Image

- imageUID (page 105)

Returns a unique string that identifies the data source item.

imageRepresentationType (page 104)

Returns the representation type of the image to display.

- imageRepresentation (page 104)

Returns the image to display.

Providing Optional Information for an Image

- imageVersion (page 105)

Returns the version of the item.

- imageTitle (page 105)

Returns the display title of the image.

imageSubtitle (page 104)

Returns the display subtitle of the image.

- isSelectable (page 106)

Returns whether this item is selectable.

Overview 103

Instance Methods

imageRepresentation

Returns the image to display.

- (id) imageRepresentation;

Return Value

The image to display; can return nil if the item has no image to display.

Discussion

Your data source must implement this method. This method is called frequently, so the receiver should cache the returned instance.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageRepresentationType

Returns the representation type of the image to display.

- (NSString *) imageRepresentationType;

Return Value

A string that specifies the image representation type. The string can be any of the constants defined in "Image Representation Types" (page 106).

Discussion

Your data source must implement this method.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageSubtitle

Returns the display subtitle of the image.

- (NSString *) imageSubtitle

Return Value

The display subtitle of the image.

Discussion

This method is optional.

IKImageBrowserItem Protocol Reference

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageTitle

Returns the display title of the image.

```
- (NSString *) imageTitle;
```

Return Value

The display title of the image.

Discussion

This method is optional.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageUID

Returns a unique string that identifies the data source item.

```
(NSString *) imageUID;
```

Return Value

The string that identifies the data source item

Discussion

Your data source must implement this method. The image browser view uses this identifier to associate the data source item and its cache.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

imageVersion

Returns the version of the item.

```
- (NSUInteger) imageVersion;
```

Return Value

The version of the item.

Instance Methods 105

IKImageBrowserItem Protocol Reference

Discussion

This method is optional. The receiver can return a new version to let the image browser knows that it should not use its cache for the item.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

isSelectable

Returns whether this item is selectable.

- (BOOL) isSelectable;

Return Value

YES if the item is selectable; NO otherwise.

Discussion

This method is optional. You can prevent selection of this item by returning NO.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageBrowserView.h

Constants

Image Representation Types

Representation types for images.

```
NSString * const IKImageBrowserPathRepresentationType;
NSString * const IKImageBrowserNSURLRepresentationType;
NSString * const IKImageBrowserCGImageRepresentationType;
NSString * const IKImageBrowserCGImageRepresentationType;
NSString * const IKImageBrowserCGImageSourceRepresentationType;
NSString * const IKImageBrowserNSDataRepresentationType;
NSString * const IKImageBrowserNSBitmapImageRepresentationType;
NSString * const IKImageBrowserQTMovieRepresentationType;
NSString * const IKImageBrowserQTMoviePathRepresentationType;
NSString * const IKImageBrowserQCCompositionRepresentationType;
NSString * const IKImageBrowserQCCompositionPathRepresentationType;
NSString * const IKImageBrowserQuickLookPathRepresentationType;
NSString * const IKImageBrowserIconRefPathRepresentationType;
NSString * const IKImageBrowserIconRefPathRepresentationType;
```

Constants

IKI mage Browser Path Representation Type

A path representation (NSString).

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

 ${\tt IKImageBrowserNSURLRepresentationType}$

An NSURLobject.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKI mage Browser NSI mage Representation Type

An NSImage object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImage Browser CGImage Representation Type

A CGImageRef object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImageBrowserCGImageSourceRepresentationType

A CGImageSourceRef object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKI mage Browser NSD at a Representation Type

An NSData object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImageBrowserNSBitmapImageRepresentationType

An NSBitmapImageRep object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

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IKImageBrowserItem Protocol Reference

IKImage Browser QTMovie Representation Type

A QTMovie object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKI mage Browser QTM ovie Path Representation Type

A path (NSString) or URL (NSURL) to a QuickTime movie.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImageBrowserQCCompositionRepresentationType

A QCComposition object.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImageBrowserQCCompositionPathRepresentationType

A path (NSString) or URL (NSURL) to a Quartz Composer composition.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKI mage Browser Quick Look Path Representation Type

A path (NSString) or URL (NSURL) to load data using QuickLook.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKI mage Browser I con Ref Path Representation Type

A path to an icon.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

IKImage Browser I con Ref Representation Type

An icon.

Available in Mac OS X v10.5 and later.

Declared in IKImageBrowserView.h.

Declared In

IKImageBrowserView.h

IKImageEditPanelDataSource Protocol Reference

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKImageEditPanel.h

Overview

The IKImageEditPanelDataSource informal protocol describes the methods that an IKImageEditPanel object uses to access the contents of its data source object.

Tasks

Getting and Setting Image Properties

- imageProperties (page 110)

Returns a dictionary of the image properties associated with the image in the image edit panel.

- setImage:imageProperties: (page 110)

Sets an image with the specified properties.

Getting Images From the Data Source

```
- image (page 109)
      Returns an image.
```

- thumbnailWithMaximumSize: (page 111)

Returns a thumbnail image whose size is no larger than the specified size.

Instance Methods

image

Returns an image.

- (CGImageRef)image;

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CHAPTER 15

IKImageEditPanelDataSource Protocol Reference

Return Value

An image.

Discussion

Your data source must implement this method.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageEditPanel.h

imageProperties

Returns a dictionary of the image properties associated with the image in the image edit panel.

- (NSDictionary*)imageProperties;

Return Value

A dictionary that contains the properties of the image.

Discussion

This method is optional.

Availability

Available in Mac OS X v10.5 and later.

See Also

- setImage:imageProperties (page 110)

Declared In

IKImageEditPanel.h

set Image: image Properties:

Sets an image with the specified properties.

- (void)setImage: (CGImageRef)image imageProperties: (NSDictionary*)metaData;

Discussion

Your data source must implement this method.

Availability

Available in Mac OS X v10.5 and later.

See Also

- imageProperties (page 110)

Declared In

IKImageEditPanel.h

IKImageEditPanelDataSource Protocol Reference

thumbnailWithMaximumSize:

Returns a thumbnail image whose size is no larger than the specified size.

- (CGImageRef)thumbnailWithMaximumSize: (NSSize)size;

Return Value

An image.

Discussion

This method is optional.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKImageEditPanel.h

Instance Methods 111

CHAPTER 15

IKImageEditPanelDataSource Protocol Reference

Adopted by IKSlideshow

Framework System/Library/Frameworks/Quartz.framework/ImageKit.framework

Availability Available in Mac OS X v10.5 and later.

Declared in ImageKit/IKSllideShow.h

Overview

The IKSlideshowDataSource protocol describes the methods that an IKSlideshow object uses to access the contents of its data source object.

Important: Slide show data source methods may be called on secondary threads. When you implement these methods, you must ensure that they are safe to run on threads other than the main thread.

Tasks

Providing Slideshow Information

numberOfSlideshowItems (page 115)

Returns the number of items in a slideshow.

- slideshowItemAtIndex: (page 116)

Returns the item for a given index

- nameOfSlideshowItemAtIndex: (page 114)

Returns the display name for item at the specified index.

- canExportSlideshowItemAtIndex:toApplication: (page 114)

Reports whether the export button should be enabled for a a slideshow item.

Performing Custom Tasks

- slideshowWillStart (page 116)

Performs custom tasks when the slideshow is about to start.

Overview 113

- slideshowDidStop (page 115)

Performs custom tasks when the slideshow stops.

- slideshowDidChangeCurrentIndex: (page 115)

Performs custom tasks when the slideshow changes to the item at the specified index.

Instance Methods

can Export Slideshow Item At Index: to Application:

Reports whether the export button should be enabled for a a slideshow item.

- (BOOL)canExportSlideshowItemAtIndex: (NSUInteger)index toApplication: (NSString *)applicationBundleIdentifier;

Return Value

YES if the export button should be enabled for an item; otherwise NO.

Discussion

This method is optional.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

nameOfSlideshowItemAtIndex:

Returns the display name for item at the specified index.

- (NSString*)nameOfSlideshowItemAtIndex: (NSUInteger)index;

Parameters

index

The index for a slideshow item.

Return Value

The display name. For the best user experience, you should provide the localized name, because this string appears in the user interface.

Discussion

This method is optional.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

numberOfSlideshowItems

Returns the number of items in a slideshow.

- (NSUInteger)numberOfSlideshowItems;

Return Value

The number of items in the slideshow.

Discussion

Your data source must implement this method.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

slide show Did Change Current Index:

Performs custom tasks when the slideshow changes to the item at the specified index.

- (void)slideshowDidChangeCurrentIndex: (NSUInteger)newIndex;

Parameters

newIndex

The index of the current item.

Discussion

This method is optional. Image Kit invokes this method when the slideshow changes to the specified item. Implement this method to perform custom tasks at that time.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

slideshowDidStop

Performs custom tasks when the slideshow stops.

(void)slideshowDidStop;

Discussion

This method is optional. Image Kit invokes this method when the slideshow stops. Implement this method to perform custom tasks at that time.

Availability

Available in Mac OS X v10.5 and later.

See Also

- slideshowWillStart (page 116)

Instance Methods 115

Declared In

IKSlideshow.h

slideshowItemAtIndex:

Returns the item for a given index

- (id)slideshowItemAtIndex: (NSUInteger)index;

Parameters

index

An index of an item in the slideshow.

Return Value

The object that corresponds to the item at the specified index. The item can be any of the following objects: NSImage, NSString (to specify a path name), NSURL, NSFileWrapper, CGImageRef, or PDFPage.

Discussion

Your data source must implement this method.

Availability

Available in Mac OS X v10.5 and later.

Declared In

IKSlideshow.h

slideshowWillStart

Performs custom tasks when the slideshow is about to start.

(void)slideshowWillStart;

Discussion

This method is optional. Image Kit invokes this method when the slideshow is about to start. Implement this method to perform custom tasks at that time.

Availability

Available in Mac OS X v10.5 and later.

See Also

- slideshowDidStop (page 115)

Declared In

IKSlideshow.h

Document Revision History

This table describes the changes to *Image Kit Reference Collection*.

Date	Notes
2006-12-06	New collection that describes the Objective-C API for providing a user interface for images, image editing, and image processing.

REVISION HISTORY

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