
IKFilterBrowserPanel Class Reference

[Graphics & Imaging](#) > Quartz





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IKFilterBrowserPanel Class Reference

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

Tasks

Getting a Filter Name

- `filterName` (page 9)
Returns the name of the filter that is currently selected in the filter browser.

Displaying and Running the Panel

- `filterBrowserViewWithOptions:` (page 8)
Returns a view that contains a filter browser.
- `beginWithOptions:modelessDelegate:didEndSelector:contextInfo:` (page 8)
Displays the filter browser in a new utility window, unless the filter browser is already open.
- `beginSheetWithOptions:modalForWindow:modalDelegate:didEndSelector:contextInfo:` (page 7)
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 10)
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 9)
Closes a filter browser view.

Creating a Filter Browser Panel

- + `filterBrowserPanelWithStyleMask:` (page 6)
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 `NSTexturedBackgroundWindowMask` style bit.

Return Value

The shared instance.

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 10) 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 `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

- [beginWithOptions:modelessDelegate:didEndSelector:contextInfo:](#) (page 8)
- [runModalWithOptions](#) (page 10)

Declared In

IKFilterBrowserPanel.h

beginWithOptions:modelessDelegate:didEndSelector:contextInfo:

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 10) and the constant `IKUISizeFlavor`.

modelessDelegate

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 `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 7)
- [runModalWithOptions](#) (page 10)

Declared In

IKFilterBrowserPanel.h

filterBrowserViewWithOptions:

Returns a view that contains a filter browser.

```
- (IKFilterBrowserView*)filterBrowserViewWithOptions:(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 10) 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 9) 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 12) or [IKFilterBrowserFilterDoubleClickNotification](#) (page 12), 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.

See Also

- [filterBrowserViewWithOptions](#) (page 8)

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 10) and the constant `IKUISizeFlavor`.

Return Value

Either `NSOKButton` if the user validates, or `NSCancelButton` if the user cancels.

Availability

Available in Mac OS X v10.5 and later.

See Also

- [beginSheetWithOptions:modalForWindow:modalDelegate:didEndSelector:contextInfo:](#) (page 7)

- [beginWithOptions:modelessDelegate:didEndSelector:contextInfo:](#) (page 8)

Declared In

IKFilterBrowserPanel.h

Constants

Filter Browser Option Keys

Keys for filter browser options.

```
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 11).

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.

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

IKFilterBrowserFilterDoubleClickNotification

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

Document Revision History

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

| Date | Notes |
|------------|--|
| 2007-10-31 | New document that describes the class that provides the panel contained in a filter browser. |

REVISION HISTORY

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 `modalDelegate:didEndSelector:contextInfo:`
 instance method 7

`beginWithOptions:modelessDelegate:didEndSelector:`
 `contextInfo:` **instance method 8**

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`filterBrowserViewWithOptions:` **instance method 8**

`filterName` **instance method 9**

`finish:` **instance method 9**

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`runModalWithOptions:` **instance method 10**