NSOpenPanel Class Reference

Cocoa > User Experience



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NSOpenPanel Class Reference

Inherits from NSSavePanel: NSPanel: NSWindow: NSResponder: NSObject

Conforms to NSUserInterfaceValidations (NSWindow)

NSAnimatablePropertyContainer (NSWindow)

NSCoding (NSResponder) NSObject (NSObject)

Framework /System/Library/Frameworks/AppKit.framework

Availability Available in Mac OS X v10.0 and later.

Declared in NSOpenPanel.h

Companion guides Application File Management

Sheet Programming Topics for Cocoa

Related sample code ExtractMovieAudioToAIFF

LSMSmartCategorizer QTExtractAndConvertToAIFF QTExtractAndConvertToMovieFile

QTKitMovieShuffler

Overview

The NSOpenPanel class provides the Open panel for the Cocoa user interface. Applications use the Open panel as a convenient way to query the user for the name of a file to open.

Tasks

Creating Panels

+ openPanel (page 7)

Creates and returns a NSOpenPanel (page 5) object.

Configuring Panels

- canChooseFiles (page 10)

Returns whether the receiver allows the user to choose files to open.

- setCanChooseFiles: (page 13)

Sets whether the user can select files in the receiver's browser.

- canChooseDirectories (page 10)

Returns whether the receiver allows the user to choose directories to open.

- setCanChooseDirectories: (page 13)

Sets whether the user can select directories in the receiver's browser.

- resolvesAliases (page 11)

Returns whether the receiver resolves aliases.

- setResolvesAliases: (page 14)

Sets whether the receiver resolves aliases to resolves Aliases.

allowsMultipleSelection (page 7)

Returns whether the receiver's browser allows the user to open multiple files (and directories) at a time

setAllowsMultipleSelection: (page 12)

Sets whether the user can select multiple files (and directories) at one time for opening to flag.

Running Panels

- beginForDirectory:file:types:modelessDelegate:didEndSelector:contextInfo: (page
8)

Presents a modeless Open panel.

beginSheetForDirectory:file:types:modalForWindow:modalDelegate:didEndSelector:contextInfo:(page9)

Presents an Open panel as a sheet with the directory specified by absoluteDirectoryPath and optionally the file specified by filename selected.

- runModalForDirectory:file:types: (page 11)

Displays the receiver and begins a modal event loop that is terminated when the user clicks either OK or Cancel.

- runModalForTypes: (page 12)

Displays the receiver and begins a modal event loop that is terminated when the user clicks either OK or Cancel.

Accessing User Selection

- filenames (page 10)

Returns an array containing the absolute paths (as NSString objects) of the selected files and directories.

- URLs (page 14)

Returns an array containing the absolute paths of the selected files and directories as URLs.

Class Methods

openPanel

Creates and returns a NSOpenPanel (page 5) object.

+ (NSOpenPanel *)openPanel

Return Value

Initialized Open panel.

Discussion

The open panel has been initialized with default values.

Availability

Available in Mac OS X v10.0 and later.

Related Sample Code

ContentBurn

LSMSmartCategorizer

QTKitPlayer

Quartz Composer WWDC 2005 TextEdit

TextEditPlus

Declared In

NSOpenPanel.h

Instance Methods

allowsMultipleSelection

Returns whether the receiver's browser allows the user to open multiple files (and directories) at a time.

- (BOOL)allowsMultipleSelection

Discussion

If multiple files or directories are allowed, then the filename method—inherited from NSSavePanel—returns a non-nil value only if one and only one file is selected. By contrast, NSOpenPanel's filenames (page 10) method always returns the selected files, even if only one file is selected.

Availability

Available in Mac OS X v10.0 and later.

See Also

- filename (NSSavePanel)
- filenames (page 10)
- setAllowsMultipleSelection: (page 12)

Class Methods

7

Declared In

NSOpenPanel.h

begin For Directory: file: types: modeless Delegate: did End Selector: context Info:

Presents a modeless Open panel.

Parameters

absoluteDirectoryPath

Directory whose files the panel displays. When nil, the directory is the same directory used in the previous invocation of the panel; this is probably the best choice for most situations.

filename

Specifies a particular file in absoluteDirectoryPath that is selected when the Open panel is presented to the user. When nil, no file is initially selected.

fileTypes

Array of file extensions and/or HFS file types. Specifies the files the panel allows the user to select. nil makes all files in absoluteDirectoryPath selectable by the user. An array of types passed in here will override one set using setAllowedFileTypes:.

modelessDelegate

This is not the same as a delegate assigned to the panel. This delegate is temporary and the relationship only lasts until the panel is dismissed.

didEndSelector

Message sent to <code>modelessDelegate</code> after the panel's session has ended, but before dismissing the Open panel. <code>didEndSelector</code> may dismiss the Open panel itself; otherwise, it will be dismissed on return from the method. The corresponding method should have the following signature:

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

The value passed as returnCode will be either NSCancel Button or NSOKButton.

contextInfo

Context information passed to modelessDelegate in the didEndSelector message.

Discussion

Similar to

beginSheetForDirectory:file:types:modalForWindow:modalDelegate:didEndSelector:contextInfo: (page 9), but allows for modeless operation of the panel.

Availability

Available in Mac OS X v10.3 and later.

Declared In

NSOpenPanel.h

beginSheetForDirectory:file:types:modalForWindow:modalDelegate:didEndSelector:contextInfo:

Presents an Open panel as a sheet with the directory specified by absoluteDirectoryPath and optionally the file specified by filename selected.

```
- (void)beginSheetForDirectory:(NSString *)absoluteDirectoryPath file:(NSString
 *)filename types:(NSArray *)fileTypes modalForWindow:(NSWindow *)docWindow
 modalDelegate:(id)modalDelegate didEndSelector:(SEL)didEndSelector
 contextInfo:(void *)contextInfo
```

Parameters

absoluteDirectoryPath

Directory whose files the panel displays. When nil, the directory is the same directory used in the previous invocation of the panel; this is probably the best choice for most situations.

filename

Specifies a particular file in absoluteDirectoryPath that is selected when the Open panel is presented to the user. When nil, no file is initially selected.

fileTypes

Array of file extensions and/or HFS file types. Specifies the files the panel allows the user to select. nil makes all files in absoluteDirectoryPath selectable by the user. An array of types passed in here will override one set using setAllowedFileTypes:.

docWindow

Window to open the sheet on.

modalDelegate

This is not the same as a delegate assigned to the panel. This delegate is temporary and the relationship only lasts until the panel is dismissed..

didEndSelector

Message sent to modal Delegate after the modal session has ended, but before dismissing the Open panel. didEndSelector may dismiss the Open panel itself; otherwise, it will be dismissed on return from the method. The corresponding method should have the following signature:

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

The value passed as returnCode will be either NSCancelButton or NSOKButton.

contextInfo

Context information passed to modalDelegate in the didEndSelector message.

Availability

Available in Mac OS X v10.0 and later.

Related Sample Code

JSheets

NSOperationSample

QTQuartzPlayer

Quartz 2D Transformer

SillyFrequencyLevels

Declared In

NSOpenPanel.h

canChooseDirectories

Returns whether the receiver allows the user to choose directories to open.

- (BOOL)canChooseDirectories

Availability

Available in Mac OS X v10.0 and later.

See Also

```
- setCanChooseDirectories: (page 13)
```

Declared In

NSOpenPanel.h

canChooseFiles

Returns whether the receiver allows the user to choose files to open.

- (BOOL)canChooseFiles

Availability

Available in Mac OS X v10.0 and later.

See Also

```
- setCanChooseFiles: (page 13)
```

Declared In

NSOpenPanel.h

filenames

Returns an array containing the absolute paths (as NSString objects) of the selected files and directories.

```
- (NSArray *)filenames
```

Discussion

If multiple selections aren't allowed, the array contains a single name. The filenames method is preferable over NSSavePanel's filename to get the name or names of files and directories that the user has selected.

Availability

Available in Mac OS X v10.0 and later.

See Also

- URLs (page 14)

Related Sample Code

LSMSmartCategorizer

TextEditPlus

ThreadsExporter

ThreadsImporter

ThreadsImportMovie

Declared In

NSOpenPanel.h

resolvesAliases

Returns whether the receiver resolves aliases.

- (BOOL)resolvesAliases

Discussion

If YES, the effect is that dropping an alias on the receiver or asking for filenames or URLs returns the resolved aliases. The default is YES.

Availability

Available in Mac OS X v10.1 and later.

See Also

```
setResolvesAliases: (page 14)
```

Declared In

NSOpenPanel.h

runModalForDirectory:file:types:

Displays the receiver and begins a modal event loop that is terminated when the user clicks either OK or Cancel.

- (NSInteger)runModalForDirectory:(NSString *)absoluteDirectoryPath file:(NSString *)filename types:(NSArray *)fileTypes

Parameters

absoluteDirectoryPath

Directory whose files the panel displays. When nil, the directory is the same directory used in the previous invocation of the panel; this is probably the best choice for most situations.

filename

Specifies a particular file in absoluteDirectoryPath that is selected when the Open panel is presented to the user. When nil, no file is initially selected.

fileTypes

Array of file extensions and/or HFS file types. Specifies the files the panel allows the user to select. nil makes all files in absoluteDirectoryPath selectable by the user. An array of types passed in here will override one set using setAllowedFileTypes:.

Return Value

Button clicked to dismiss the dialog: NSOKButton for the OK button and NSCancel Button for the Cancel button.

Discussion

You can control whether directories and files appear in the browser with the setCanChooseDirectories: (page 13) and setCanChooseFiles: (page 13) methods.

Availability

Available in Mac OS X v10.0 and later.

Instance Methods 11

See Also

- runModalForTypes: (page 12)

Related Sample Code

CocoaVideoFrameToGWorld LiveVideoMixer2 LiveVideoMixer3 QTGraphicsImport

Declared In

NSOpenPanel.h

runModalForTypes:

Displays the receiver and begins a modal event loop that is terminated when the user clicks either OK or Cancel.

- (NSInteger)runModalForTypes:(NSArray *)fileTypes

Parameters

fileTypes

Array of file extensions and/or HFS file types. Specifies the files the panel allows the user to select. nil makes all files selectable by the user. An array of types passed in here will override one set using setAllowedFileTypes:.

Return Value

Button used to dismiss the dialog: NSOKButton for the OK button and NSCancel Button for the Cancel button.

Discussion

This convenience method sends runModalForDirectory:nil file:nil types: fileTypes to the receiver. See runModalForDirectory:file:types: (page 11) for additional details.

Availability

Available in Mac OS X v10.0 and later.

See Also

```
- runModalForDirectory:file:types: (page 11)
```

Related Sample Code

BackgroundExporter

CIVideoDemoGL

OpenGLCompositorLab

ThreadsExportMovie

ThreadsImportMovie

Declared In

NSOpenPanel.h

set Allows Multiple Selection:

Sets whether the user can select multiple files (and directories) at one time for opening to flag.

- (void)setAllowsMultipleSelection:(BOOL)flag

Availability

Available in Mac OS X v10.0 and later.

See Also

- allowsMultipleSelection (page 7)

Related Sample Code

ContentBurn

ObjectPath

OpenGLCompositorLab

Quartz Composer WWDC 2005 TextEdit

TextEditPlus

Declared In

NSOpenPanel.h

setCanChooseDirectories:

Sets whether the user can select directories in the receiver's browser.

- (void)setCanChooseDirectories:(BOOL)flag

Discussion

When a directory is selected, the OK button is enabled only if flag is YES.

Availability

Available in Mac OS X v10.0 and later.

See Also

- canChooseDirectories (page 10)

Related Sample Code

ContentBurn

LSMSmartCategorizer

NSOperationSample

ObjectPath

ThreadsImportMovie

Declared In

NSOpenPanel.h

setCanChooseFiles:

Sets whether the user can select files in the receiver's browser.

- (void)setCanChooseFiles:(BOOL)flag

Availability

Available in Mac OS X v10.0 and later.

See Also

- canChooseFiles (page 10)

Related Sample Code

ContentBurn

LSMSmartCategorizer

NSOperationSample

ObjectPath

ThreadsImportMovie

Declared In

NSOpenPanel.h

setResolvesAliases:

Sets whether the receiver resolves aliases to resolves Aliases.

- (void)setResolvesAliases:(BOOL)resolvesAliases

Discussion

If YES, the effect is that dropping an alias on the receiver or asking for filenames or URLs returns the resolved aliases. Set this value to NO to allow selection of aliases without resolving.

Availability

Available in Mac OS X v10.1 and later.

See Also

- resolvesAliases (page 11)

Related Sample Code

CIVideoDemoGL
Core Animation QuickTime Layer
NSOperationSample
ObjectPath
Quartz 2D Transformer

Declared In

NSOpenPanel.h

URLs

Returns an array containing the absolute paths of the selected files and directories as URLs.

- (NSArray *)URLs

Discussion

If multiple selections aren't allowed, the array contains a single name.

Availability

Available in Mac OS X v10.0 and later.

See Also

- filenames (page 10)

Related Sample Code

Background Exporter
CIAnnotation
Cocoa Speech Synthesis Example
QTKit Create Movie
QTKit Frame Stepper

Declared In

NSOpenPanel.h

NSOpenPanel Class Reference

Document Revision History

This table describes the changes to NSOpenPanel Class Reference.

Date	Notes
2009-02-04	Added more specific information regarding didEndSelector behavior in panel-running methods.
2007-04-03	Removed documentation for methods not present in the corresponding header file.
	Removed allowedFileTypes and setAllowedFileTypes:.
	Made editorial improvements.
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

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