
NSDrawer Class Reference

[Cocoa](#) > [User Experience](#)



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NSDrawer Class Reference

Inherits from	NSResponder : NSObject
Conforms to	NSCoding (NSResponder) NSObject (NSObject)
Framework	/System/Library/Frameworks/AppKit.framework
Availability	Available in Mac OS X v10.0 and later.
Companion guide	Drawers
Declared in	NSDrawer.h
Related sample code	PDFKitLinker2 QTAudioExtractionPanel

Overview

An `NSDrawer` object is a user interface element that contains and displays view objects including `NSTextView`, `NSScrollView`, `NSBrowser`, and other classes that inherit from `NSView`. A drawer is associated with a window, called its parent, and can appear only while its parent is visible onscreen. A drawer cannot be moved or ordered independently of a window, but is instead attached to one edge of its parent and moves along with it.

Tasks

Creating an NSDrawer

- [initWithContentSize:preferredEdge:](#) (page 10)
Creates a new drawer with the given size on the specified edge of the parent window.

Opening and Closing Drawers

- [close](#) (page 8)
If the receiver is open, this method closes it.
- [close:](#) (page 8)
An action method to close the receiver.

- [open](#) (page 11)
If the receiver is closed, this method opens it.
- [open:](#) (page 12)
An action method to open the drawer.
- [openOnEdge:](#) (page 12)
Causes the receiver to open on the specified edge of the parent window.
- [toggle:](#) (page 17)
Toggles the drawer open or closed.

Managing Drawer Size

- [contentSize](#) (page 8)
Returns the size of the receiver's content area.
- [leadingOffset](#) (page 10)
Returns the receiver's leading offset.
- [maxContentSize](#) (page 11)
Returns the maximum allowed size of the receiver's content area.
- [minContentSize](#) (page 11)
Returns the minimum allowed size of the receiver's content area.
- [setContentSize:](#) (page 13)
Sets the size of the receiver's content area.
- [setLeadingOffset:](#) (page 14)
Sets the receiver's leading offset.
- [setMaxContentSize:](#) (page 15)
Specifies the maximum size of the receiver's content area.
- [setMinContentSize:](#) (page 15)
Specifies the minimum size of the receiver's content area.
- [setTrailingOffset:](#) (page 16)
Sets the receiver's trailing offset.
- [trailingOffset](#) (page 18)
Returns the receiver's trailing offset.

Managing Drawer Edges

- [edge](#) (page 9)
Returns the edge of the window that the receiver is connected to.
- [preferredEdge](#) (page 13)
Returns the receiver's preferred, or default, edge.
- [setPreferredEdge:](#) (page 16)
Sets the receiver's preferred, or default, edge.

Managing a Drawer's Views

- [contentView](#) (page 9)
Returns the receiver's content view.
- [parentWindow](#) (page 12)
Returns the receiver's parent window.
- [setContentView:](#) (page 14)
Sets the receiver's content view.
- [setParentWindow:](#) (page 16)
Sets the receiver's parent window.

Accessing Other Drawer Information

- [delegate](#) (page 9)
Returns the receiver's delegate.
- [setDelegate:](#) (page 14)
Sets the receiver's delegate.
- [state](#) (page 17)
Returns the state of the receiver.

Opening a drawer

- [drawerDidOpen:](#) (page 18) *delegate method*
Notifies the delegate that the drawer has opened.
- [drawerShouldOpen:](#) (page 19) *delegate method*
Requests permission for a drawer to open.
- [drawerWillOpen:](#) (page 20) *delegate method*
Notifies the delegate that the drawer will open.

Resizing a drawer

- [drawerWillResizeContents:toSize:](#) (page 20) *delegate method*
Invoked when the user resizes the drawer or parent.

Closing a drawer

- [drawerDidClose:](#) (page 18) *delegate method*
Notifies the delegate that the drawer has closed.
- [drawerShouldClose:](#) (page 19) *delegate method*
Requests permission for a drawer to close.
- [drawerWillClose:](#) (page 19) *delegate method*
Notifies the delegate the the drawer will close.

Instance Methods

close

If the receiver is open, this method closes it.

- (void)close

Discussion

Calling `close` on a closed drawer does nothing. You can get the state of a drawer by sending it `state` (page 17).

Availability

Available in Mac OS X v10.0 and later.

See Also

- [open](#) (page 11)

Declared In

NSDrawer.h

close:

An action method to close the receiver.

- (void)close:(id)sender

Parameters

sender

A user interface element, such as a button or menu item, that invokes the action method.

Discussion

This method is an action method and likely would not be invoked programatically. Rather, it is an action that each drawer comes with in Interface Builder.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [open:](#) (page 12)

Declared In

NSDrawer.h

contentSize

Returns the size of the receiver's content area.

- (NSSize)contentSize

Return Value

The size of the receiver's content area.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setContentSize:](#) (page 13)
- [setMaxContentSize:](#) (page 15)
- [setMinContentSize:](#) (page 15)

Declared In

NSDrawer.h

contentView

Returns the receiver's content view.

- (NSView *)contentView

Return Value

The receiver's content view.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setContentView:](#) (page 14)

Declared In

NSDrawer.h

delegate

Returns the receiver's delegate.

- (id)delegate

Return Value

The receiver's delegate.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setDelegate:](#) (page 14)

Declared In

NSDrawer.h

edge

Returns the edge of the window that the receiver is connected to.

- (NSRectEdge)edge

Return Value

The edge of the parent window at which the drawer is attached. See “[Constants](#)” (page 21) for a list of edge constants and locations.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

initWithContentSize:preferredEdge:

Creates a new drawer with the given size on the specified edge of the parent window.

```
- (id)initWithContentSize:(NSSize)contentSize preferredEdge:(NSRectEdge)edge
```

Parameters

contentSize

The size of the new drawer.

edge

The edge to which to attach the new drawer.

Discussion

You must specify the parent window and content view of the drawer using the methods in this class. When you create a drawer in Interface Builder, this constructor is invoked. The NSDrawer Inspector in Interface Builder allows you to set the edge, and you can specify the size by changing the content view in Interface Builder.

See “[Positioning and Sizing a Drawer](#)” for additional detail on content size and drawer positioning.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

leadingOffset

Returns the receiver’s leading offset.

```
- (CGFloat)leadingOffset
```

Return Value

The receiver’s leading offset. This is the distance from the top or left edge of the parent window to the drawer.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setLeadingOffset:](#) (page 14)

Declared In

NSDrawer.h

maxContentSize

Returns the maximum allowed size of the receiver's content area.

- (NSSize)maxContentSize

Return Value

The maximum size of the receiver's content area. This is useful for determining if an opened drawer would fit onscreen given the current window position.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setMaxContentSize](#): (page 15)

Declared In

NSDrawer.h

minContentSize

Returns the minimum allowed size of the receiver's content area.

- (NSSize)minContentSize

Return Value

The minimum size of the receiver's content area.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setMinContentSize](#): (page 15)

Declared In

NSDrawer.h

open

If the receiver is closed, this method opens it.

- (void)open

Discussion

Calling *open* on an open drawer does nothing. You can get the state of a drawer by sending it [state](#) (page 17). If an edge is not specified, an attempt will be made to choose an edge based on the space available to display the drawer onscreen. If you need to ensure that a drawer opens on a particular edge, use [openOnEdge](#): (page 12).

Availability

Available in Mac OS X v10.0 and later.

See Also

- [close](#) (page 8)

Declared In

NSDrawer.h

open:

An action method to open the drawer.

```
- (void)open:(id)sender
```

Parameters

sender

A user interface element, such as a button or menu item, that invokes the action method.

Discussion

This method is an action method and likely would not be invoked programatically. Rather, it is an action that each drawer comes with in Interface Builder.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [close:](#) (page 8)

Declared In

NSDrawer.h

openOnEdge:

Causes the receiver to open on the specified edge of the parent window.

```
- (void)openOnEdge:(NSRectEdge)edge
```

Parameters

edge

The edge of the parent window on which to open the receiver. See [“Constants”](#) (page 21) for a list of edge constants and locations.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

parentWindow

Returns the receiver’s parent window.

```
- (NSWindow *)parentWindow
```

Return Value

The receiver’s parent window. By definition, a drawer can appear onscreen only if it has a parent.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setParentWindow:](#) (page 16)

Declared In

NSDrawer.h

preferredEdge

Returns the receiver's preferred, or default, edge.

- (NSRectEdge)preferredEdge

Return Value

The receiver's preferred edge. If a drawer is told to open and an edge is not specified at that time, it opens on its preferred edge. When you create a drawer with Interface Builder, the preferred edge is set to the left by default.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setPreferredEdge:](#) (page 16)

Declared In

NSDrawer.h

setContentSize:

Sets the size of the receiver's content area.

- (void)setContentSize:(NSSize) *size*

Parameters

size

The new size of the receiver's content area. See "Positioning and Sizing a Drawer" for additional detail.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [contentSize](#) (page 8)
- [setMaxContentSize:](#) (page 15)
- [setMinContentSize:](#) (page 15)

Declared In

NSDrawer.h

setContentView:

Sets the receiver's content view.

```
- (void)setContentView:(NSView *)aView
```

Parameters

aView

The content view of the receiver. Rather than connect a drawer to its content view in Interface Builder, you can specify it programmatically with this method.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [contentView](#) (page 9)

Declared In

NSDrawer.h

setDelegate:

Sets the receiver's delegate.

```
- (void)setDelegate:(id)anObject
```

Parameters

anObject

The object to assign as the receiver's delegate.

Discussion

You may find it useful to associate a delegate with a drawer, especially since drawers do not open and close instantly. A drawer's delegate can better regulate drawer behavior. However, a drawer can be used without a delegate.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [delegate](#) (page 9)

Declared In

NSDrawer.h

setLeadingOffset:

Sets the receiver's leading offset.

```
- (void)setLeadingOffset:(CGFloat)offset
```

Parameters

offset

The leading offset of the receiver. This is the distance from the top or left edge of the parent window to the drawer. See "Positioning and Sizing a Drawer" for additional detail.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [leadingOffset](#) (page 10)
- [setTrailingOffset:](#) (page 16)

Declared In

NSDrawer.h

setMaxContentSize:

Specifies the maximum size of the receiver's content area.

- (void)setMaxContentSize:(NSSize) *size*

Parameters

size

The new maximum size of the receiver's content area. See "Positioning and Sizing a Drawer" for additional detail.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [maxContentSize](#) (page 11)

Declared In

NSDrawer.h

setMinContentSize:

Specifies the minimum size of the receiver's content area.

- (void)setMinContentSize:(NSSize) *size*

Parameters

size

The new minimum size of the receiver's content area. See "Positioning and Sizing a Drawer" for additional detail.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [minContentSize](#) (page 11)

Declared In

NSDrawer.h

setParentWindow:

Sets the receiver's parent window.

```
- (void)setParentWindow:(NSWindow *)parent
```

Parameters

parent

The parent window of the receiver. Every drawer must be associated with a parent window for a drawer to appear onscreen. If this argument is `nil`, the drawer is removed from its parent.

Discussion

Changes in a drawer's parent window do not take place while the drawer is onscreen; they are delayed until the drawer next closes.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [parentWindow](#) (page 12)

Declared In

NSDrawer.h

setPreferredEdge:

Sets the receiver's preferred, or default, edge.

```
- (void)setPreferredEdge:(NSRectEdge)preferredEdge
```

Parameters

preferredEdge

The edge on which the receiver should open by default. A drawer can be told to open on a specific [edge](#) (page 9); if an edge is not specified, however, it opens on the preferred edge.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [preferredEdge](#) (page 13)

Declared In

NSDrawer.h

setTrailingOffset:

Sets the receiver's trailing offset.

```
- (void)setTrailingOffset:(CGFloat)offset
```


Parameters*offset*

The receiver's trailing offset. This is the distance to the right or bottom edge of the drawer from the right or bottom edge of the parent window. See "Positioning and Sizing a Drawer" for additional detail.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [LeadingOffset](#) (page 10)

Declared In

NSDrawer.h

state

Returns the state of the receiver.

- (NSInteger)state

Return Value

The drawer's state. Refer to [NSDrawerState](#) (page 21) for a list of possible values.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

toggle:

Toggles the drawer open or closed.

- (void)toggle:(id)sender

Parameters*sender*

The sender of the message.

Discussion

If the receiver is closed, or in the process of either opening or closing, it is opened. Otherwise, the drawer is closed.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

trailingOffset

Returns the receiver's trailing offset.

- (CGFloat)trailingOffset

Return Value

The receiver's trailing offset. This is the distance to the right or bottom edge of the drawer from the right or bottom edge of the parent window.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setTrailingOffset:](#) (page 16)

Declared In

NSDrawer.h

Delegate Methods

drawerDidClose:

Notifies the delegate that the drawer has closed.

- (void)drawerDidClose:(NSNotification *)*notification*

Parameters

notification

An [NSDrawerDidCloseNotification](#) (page 22) notification sent by the default notification center immediately after the drawer has closed.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

drawerDidOpen:

Notifies the delegate that the drawer has opened.

- (void)drawerDidOpen:(NSNotification *)*notification*

Parameters

notification

An [NSDrawerDidOpenNotification](#) (page 22) notification, sent by the default notification center immediately after the drawer has opened.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

drawerShouldClose:

Requests permission for a drawer to close.

```
- (BOOL)drawerShouldClose:(NSDrawer *)sender
```

Parameters

sender

The drawer being closed.

Return Value

YES to allow the drawer to close; NO to prevent it from closing.

Discussion

This method is invoked on user-initiated attempts to close a drawer by dragging it or when the [close:](#) (page 8) method is called.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

drawerShouldOpen:

Requests permission for a drawer to open.

```
- (BOOL)drawerShouldOpen:(NSDrawer *)sender
```

Parameters

sender

The drawer requesting permission to open.

Return Value

YES if the drawer should open; NO to prevent the drawer from opening.

Discussion

This method is invoked on user-initiated attempts to open a drawer by dragging it or when the [open:](#) (page 12) method is called.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

drawerWillClose:

Notifies the delegate the the drawer will close.

- (void)drawerWillClose:(NSNotification *)*notification*

Parameters

notification

An [NSDrawerWillCloseNotification](#) (page 22) notification sent by the default notification center immediately before the drawer is closed.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

drawerWillOpen:

Notifies the delegate that the drawer will open.

- (void)drawerWillOpen:(NSNotification *)*notification*

Parameters

notification

An [NSDrawerWillOpenNotification](#) (page 22) notification, sent by the default notification center immediately before the drawer is opened.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

drawerWillResizeContents:toSize:

Invoked when the user resizes the drawer or parent.

- (NSSize)drawerWillResizeContents:(NSDrawer *)*sender* toSize:(NSSize)*contentSize*

Parameters

sender

The drawer being resized.

contentSize

The proposed new size of the drawer.

Return Value

The size that the drawer should be resized to. To resize to a different size, simply return the desired size from this method; to avoid resizing, return the current size.

Discussion

The receiver's minimum and maximum size constraints have already been applied when this method is invoked. While the user is resizing an `NSDrawer` or its parent, the delegate is sent a series of `windowWillResize` messages as the `NSDrawer` or parent window is dragged.

Availability

Available in Mac OS X v10.0 and later.

Declared In
NSDrawer.h

Constants

NSDrawerState

These constants specify the possible states of a drawer.

```
typedef enum _NSDrawerState {
    NSDrawerClosedState = 0,
    NSDrawerOpeningState = 1,
    NSDrawerOpenState = 2,
    NSDrawerClosingState = 3
} NSDrawerState;
```

Constants

NSDrawerClosedState

The drawer is closed (not visible onscreen).

Available in Mac OS X v10.0 and later.

Declared in NSDrawer.h.

NSDrawerOpeningState

The drawer is in the process of opening.

Available in Mac OS X v10.0 and later.

Declared in NSDrawer.h.

NSDrawerOpenState

The drawer is open (visible onscreen).

Available in Mac OS X v10.0 and later.

Declared in NSDrawer.h.

NSDrawerClosingState

The drawer is in the process of closing.

Available in Mac OS X v10.0 and later.

Declared in NSDrawer.h.

Discussion

These constants are returned by [state](#) (page 17).

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSDrawer.h

Notifications

NSDrawerDidCloseNotification

Posted whenever the drawer is closed.

The notification object is the `NSDrawer` object that closed. This notification does not contain a *userInfo* dictionary.

Availability

Available in Mac OS X v10.0 and later.

Declared In

`NSDrawer.h`

NSDrawerDidOpenNotification

Posted whenever the drawer is opened.

The notification object is the `NSDrawer` object that opened. This notification does not contain a *userInfo* dictionary.

Availability

Available in Mac OS X v10.0 and later.

Declared In

`NSDrawer.h`

NSDrawerWillCloseNotification

Posted whenever the drawer is about to close.

The notification object is the `NSDrawer` object about to close. This notification does not contain a *userInfo* dictionary.

Availability

Available in Mac OS X v10.0 and later.

Declared In

`NSDrawer.h`

NSDrawerWillOpenNotification

Posted whenever the drawer is about to open.

The notification object is the `NSDrawer` object about to open. This notification does not contain a *userInfo* dictionary.

Availability

Available in Mac OS X v10.0 and later.

Declared In

`NSDrawer.h`

Document Revision History

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

Date	Notes
2006-05-23	First publication of this content as a separate document.

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