
NSDrawer Class Reference

User Experience: Data Presentation



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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	CocoaAUHost DrawerMadness 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 Drawers

- `initWithContentSize:preferredEdge:` (page 9)
Creates a new drawer with the given size on the specified edge of the parent window.
- `delegate` (page 9)
Returns the receiver's delegate.
- `setDelegate:` (page 14)
Sets the receiver's delegate.

Opening and Closing Drawers

- `close` (page 7)
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 11)
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.
- `state` (page 16)
Returns the state of the receiver.

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 10)
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 14)
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 17)
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 12)
Returns the receiver's preferred, or default, edge.
- [setPreferredEdge:](#) (page 16)
Sets the receiver's preferred, or default, edge.

Managing Drawer Views

- [contentView](#) (page 8)
Returns the receiver's content view.
- [parentWindow](#) (page 12)
Returns the receiver's parent window.
- [setContentView:](#) (page 13)
Sets the receiver's content view.
- [setParentWindow:](#) (page 15)
Sets the receiver's parent window.

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 16).

Availability

Available in Mac OS X v10.0 and later.

See Also

- [open](#) (page 11)

Related Sample Code

DrawerMadness

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 programmatically. Rather, it is an action that is commonly connected in Interface Builder.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [open:](#) (page 11)

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 14)
- [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 13)

Declared In

NSDrawer.h

delegate

Returns the receiver's delegate.

- (id < NSDrawerDelegate >)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 18) 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.

Related Sample Code

[DrawerMadness](#)

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 14)

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 16). 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 7)

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 is commonly connected 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 18) for a list of edge constants and locations.

Availability

Available in Mac OS X v10.0 and later.

Related Sample Code

DrawerMadness

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 15)

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 14)
- [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 8)

Declared In

NSDrawer.h

setDelegate:

Sets the receiver's delegate.

- (void)setDelegate:(id < NSDrawerDelegate >)anObject

Parameters*anObject*

The object to assign as the receiver's delegate. The object must conform to the *NSDrawerDelegate Protocol Reference*.

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.

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 10)

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 12)

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 18) for a list of possible values.

Availability

Available in Mac OS X v10.0 and later.

Related Sample Code

DrawerMadness

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.

Related Sample Code

QTAudioExtractionPanel

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

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 16).

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
2009-03-31	Updated for Mac OS X v10.6
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

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