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# NSWindowController Class Reference

[Cocoa > Design Guidelines](#)



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# NSWindowController Class Reference

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<b>Inherits from</b>	NSResponder : NSObject
<b>Conforms to</b>	NSCoding NSCoding (NSResponder) NSObject (NSObject)
<b>Framework</b>	/System/Library/Frameworks/AppKit.framework
<b>Availability</b>	Available in Mac OS X v10.0 and later.
<b>Companion guide</b>	Document-Based Applications Overview
<b>Declared in</b>	NSWindowController.h
<b>Related sample code</b>	BundleLoader iSpend QTAudioExtractionPanel QTMetadataEditor Sketch-112

## Overview

An `NSWindowController` object manages a window, usually a window stored in a nib file.

This management entails:

- Loading and displaying the window
- Closing the window when appropriate
- Customizing the window's title
- Storing the window's frame (size and location) in the defaults database
- Cascading the window in relation to other document windows of the application

A window controller can manage a window by itself or as a role player in the Application Kit's document-based architecture, which also includes `NSDocument` and `NSDocumentController` objects. In this architecture, a window controller is created and managed by a "document" (an instance of an `NSDocument` subclass) and, in turn, keeps a reference to the document.

The relationship between a window controller and a nib file is important. Although a window controller can manage a programmatically created window, it usually manages a window in a nib file. The nib file can contain other top-level objects, including other windows, but the window controller's responsibility is this

primary window. The window controller is usually the owner of the nib file, even when it is part of a document-based application. Regardless of who is the file's owner, the window controller is responsible for freeing all top-level objects in the nib file it loads.

For simple documents—that is, documents with only one nib file containing a window—you need do little directly with `NSWindowController`. The Application Kit will create one for you. However, if the default window controller is not sufficient, you can create a custom subclass of `NSWindowController`. For documents with multiple windows or panels, your document must create separate instances of `NSWindowController` (or of custom subclasses of `NSWindowController`), one for each window or panel. An example is a CAD application that has different windows for side, top, and front views of drawn objects. What you do in your `NSDocument` subclass determines whether the default `NSWindowController` or separately created and configured `NSWindowController` objects are used.

## Subclassing NSWindowController

You should create a subclass of `NSWindowController` when you want to augment the default behavior, such as to give the window a custom title or to perform some setup tasks before the window is loaded. In your class's initialization method, be sure to invoke on `super` either one of the `initWithWindowNibName:...` initializers or the `initWithWindow:` (page 9) initializer. Which one depends on whether the window object originates in a nib file or is programmatically created.

Three `NSWindowController` methods are most commonly overridden:

Method Name	Description
<a href="#">windowWillLoad</a> (page 20)	Override to perform tasks before the window nib file is loaded.
<a href="#">windowDidLoad</a> (page 18)	Override to perform tasks after the window nib file is loaded.
<a href="#">windowTitleForDocumentDisplayName:</a> (page 20)	Override to customize the window title.

You can also override [loadWindow](#) (page 12) to get different nib-searching or nib-loading behavior, although there is usually no need to do this.

## Adopted Protocols

### NSCoding

- `encodeWithCoder:`
- `initWithCoder:`

## Tasks

### Initializing NSWindowControllers

- [initWithWindow:](#) (page 9)  
Returns a window controller initialized with a given window.
- [initWithWindowNibName:](#) (page 10)  
Returns a window controller initialized with a nib file.
- [initWithWindowNibName:owner:](#) (page 11)  
Returns a window controller initialized with a nib file and a specified owner for that nib file.
- [initWithWindowNibNamePath:owner:](#) (page 11)  
Returns a window controller initialized with a nib file at an absolute path and a specified owner.

### Loading and Display the Window

- [loadWindow](#) (page 12)  
Loads the receiver's window from the nib file.
- [showWindow:](#) (page 16)  
Displays the window associated with the receiver.
- [isWindowLoaded](#) (page 11)  
Returns whether the nib file containing the receiver's window has been loaded.
- [window](#) (page 17)  
Returns the window owned by the receiver.
- [setWindow:](#) (page 14)  
Sets the window controller's window.
- [windowDidLoad](#) (page 18)  
Sent after the window owned by the receiver has been loaded.
- [windowWillLoad](#) (page 20)  
Sent before the window owned by the receiver is loaded.

### Setting and Getting the Document

- [setDocument:](#) (page 13)  
Sets the document associated with the window managed by the receiver.
- [document](#) (page 9)  
Returns the document associated with the receiver.
- [setDocumentEdited:](#) (page 13)  
Sets the document edited flag for the window controller.

## Closing the Window

- [close](#) (page 8)  
Closes the window if it was loaded.
- [shouldCloseDocument](#) (page 16)  
Returns whether the receiver necessarily closes the associated document when the window it manages is closed.
- [setShouldCloseDocument:](#) (page 14)  
Sets whether the receiver should necessarily close the associated document when the window it manages is closed.

## Getting Nib File Information

- [owner](#) (page 12)  
Returns the owner of the nib file containing the window managed by the receiver.
- [windowNibName](#) (page 19)  
Returns the name of the nib file that stores the window associated with the receiver.
- [windowNibPath](#) (page 19)  
Returns the full path of the nib file that stores the window associated with the receiver.

## Setting and Getting Window Attributes

- [setShouldCascadeWindows:](#) (page 14)  
Sets whether the window should cascade in relation to other document windows.
- [shouldCascadeWindows](#) (page 15)  
Returns whether the window will cascade in relation to other document windows when it is displayed.
- [setWindowFrameAutosaveName:](#) (page 15)  
Sets the name under which the window's frame is saved in the defaults database.
- [windowFrameAutosaveName](#) (page 18)  
Returns the name under which the frame rectangle of the window owned by the receiver is stored in the defaults database.
- [synchronizeWindowTitleWithDocumentName](#) (page 17)  
Synchronizes the displayed window title and the represented filename with the information in the associated document.
- [windowTitleForDocumentDisplayName:](#) (page 20)  
Returns the window title to be used for a given document display name.

## Instance Methods

### close

Closes the window if it was loaded.



- (void)close

#### Discussion

Because this method closes the window without asking the user for confirmation, you usually do not invoke it when the Close menu command is chosen. Instead invoke `NSWindow`'s `performClose:` on the receiver's window. See "Window Closing Behavior" for an overview of deallocation behavior when a window is closed.

#### Availability

Available in Mac OS X v10.0 and later.

#### See Also

- [shouldCloseDocument](#) (page 16)
- [setShouldCloseDocument:](#) (page 14)

#### Declared In

`NSWindowController.h`

## document

Returns the document associated with the receiver.

- (id)document

#### Return Value

The document associated with the receiver or `nil` if there is none.

#### Discussion

When a window controller is added to a document's list of window controllers, the document sets the window controller's document with `setDocument:`. The Application Kit uses this outlet to access the document for relevant next-responder messages.

#### Availability

Available in Mac OS X v10.0 and later.

#### See Also

- [setDocument:](#) (page 13)

#### Related Sample Code

EnhancedAudioBurn

Link Snoop

PDFKitLinker2

Sketch-112

#### Declared In

`NSWindowController.h`

## initWithWindow:

Returns a window controller initialized with a given window.

- (id)initWithWindow:(`NSWindow *`)window

**Parameters***window*

The window object to manage; can be `nil`.

**Return Value**

A newly initialized window controller.

**Discussion**

This method is the designated initializer for `NSWindowController`.

This initializer is useful when a window has been loaded but no window controller is assigned. The default initialization turns on cascading, sets the `shouldCloseDocument` (page 16) flag to `NO`, and sets the window frame autosave name to an empty string. As a side effect, the created window controller is added as an observer of the `NSWindowWillCloseNotifications` posted by that window object (which is handled by a private method). If you make the window controller a delegate of the window, you can implement `NSWindow`'s `windowShouldClose:` delegate method.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

`NSWindowController.h`

**initWithWindowNibName:**

Returns a window controller initialized with a nib file.

```
- (id)initWithWindowNibName:(NSString *)windowNibName
```

**Parameters***windowNibName*

The name of the nib file (minus the “.nib” extension) that archives the receiver’s window; cannot be `nil`.

**Discussion**

Sets the owner of the nib file to the receiver. The default initialization turns on cascading, sets the `shouldCloseDocument` (page 16) flag to `NO`, and sets the autosave name for the window’s frame to an empty string.

**Availability**

Available in Mac OS X v10.0 and later.

**Related Sample Code**

BundleLoader

DockTile

EnhancedAudioBurn

QTKitCreateMovie

QTKitFrameStepper

**Declared In**

`NSWindowController.h`

## initWithWindowNibName:owner:

Returns a window controller initialized with a nib file and a specified owner for that nib file.

```
- (id)initWithWindowNibName:(NSString *)windowNibName owner:(id)owner
```

### Parameters

*windowNibName*

The name of the nib file (minus the “.nib” extension) that archives the receiver’s window; cannot be nil.

*owner*

The nib file's owner; cannot be nil.

### Discussion

The default initialization turns on cascading, sets the [shouldCloseDocument](#) (page 16) flag to NO, and sets the autosave name for the window’s frame to an empty string.

### Availability

Available in Mac OS X v10.0 and later.

### Declared In

NSWindowController.h

## initWithWindowNibPath:owner:

Returns a window controller initialized with a nib file at an absolute path and a specified owner.

```
- (id)initWithWindowNibPath:(NSString *)windowNibPath owner:(id)owner
```

### Parameters

*windowNibPath*

The full path to the nib file that archives the receiver’s window; cannot be nil.

*owner*

The nib file's owner; cannot be nil.

### Discussion

Use this method if your nib file is at a fixed location (which is not inside either the file’s owner’s class’s bundle or in the application’s main bundle). The default initialization turns on cascading, sets the [shouldCloseDocument](#) (page 16) flag to NO, and sets the autosave name for the window’s frame to an empty string.

### Availability

Available in Mac OS X v10.0 and later.

### Declared In

NSWindowController.h

## isWindowLoaded

Returns whether the nib file containing the receiver’s window has been loaded.

```
- (BOOL)isWindowLoaded
```

**Return Value**

YES if the nib file containing the receiver's window has been loaded, NO otherwise.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [loadWindow](#) (page 12)
- [window](#) (page 17)
- [windowDidLoad](#) (page 18)
- [windowWillLoad](#) (page 20)

**Related Sample Code**

Sketch-112

**Declared In**

NSWindowController.h

## loadWindow

Loads the receiver's window from the nib file.

```
- (void)loadWindow
```

**Discussion**

You should never directly invoke this method. Instead, invoke [window](#) (page 17) so the [windowDidLoad](#) (page 18) and [windowWillLoad](#) (page 20) methods are invoked. Subclasses can override this method if the way it finds and loads the window is not adequate. It uses NSBundle's `bundleForClass:` method to get the bundle, using the class of the nib file owner as argument. It then locates the nib file within the bundle and, if successful, loads it; if unsuccessful, it tries to find the nib file in the main bundle.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [isWindowLoaded](#) (page 11)

**Declared In**

NSWindowController.h

## owner

Returns the owner of the nib file containing the window managed by the receiver.

```
- (id)owner
```

**Return Value**

The owner of the nib file containing the window managed by the receiver; usually `self`, but can be the receiver's document or some other object.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [windowNibName](#) (page 19)

**Declared In**

NSWindowController.h

**setDocument:**

Sets the document associated with the window managed by the receiver.

```
- (void)setDocument:(NSDocument *)document
```

**Parameters**

*document*

The new document.

**Discussion**

Documents automatically call this method when they add a window controller to their list of window controllers; you should not call it directly.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [document](#) (page 9)

**Declared In**

NSWindowController.h

**setDocumentEdited:**

Sets the document edited flag for the window controller.

```
- (void)setDocumentEdited:(BOOL)flag
```

**Parameters**

*flag*

YES if the document has been edited since its last save, NO if it hasn't.

**Discussion**

The window controller uses this flag to control whether its associated window shows up as dirty. You should not call this method directly for window controllers with an associated document; the document calls this method on its window controllers as needed.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

NSWindowController.h

## setShouldCascadeWindows:

Sets whether the window should cascade in relation to other document windows.

- (void)setShouldCascadeWindows:(BOOL)flag

### Parameters

*flag*

YES if the window should cascade in relation to other document windows, NO otherwise.

### Discussion

Cascading in relation to other document windows means having a slightly offset location so that the title bars of previously displayed windows are still visible.

The default is YES.

### Availability

Available in Mac OS X v10.0 and later.

### See Also

- [shouldCascadeWindows](#) (page 15)

### Declared In

NSWindowController.h

## setShouldCloseDocument:

Sets whether the receiver should necessarily close the associated document when the window it manages is closed.

- (void)setShouldCloseDocument:(BOOL)flag

### Parameters

*flag*

YES if the receiver necessarily closes the associated document when the window it manages is closed, NO otherwise.

### Discussion

If NO, the document is closed only when the last remaining window of the document is closed.

The default is NO.

### Availability

Available in Mac OS X v10.0 and later.

### See Also

- [shouldCloseDocument](#) (page 16)

### Declared In

NSWindowController.h

## setWindow:

Sets the window controller's window.

```
- (void)setWindow:(NSWindow *)aWindow
```

**Parameters**

*aWindow*

The new window.

**Discussion**

This method releases the old window and any associated top-level objects in its nib file and assumes ownership of the new window. You should generally create a new window controller for a new window and release the old window controller instead of using this method.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

NSWindowController.h

**setWindowFrameAutosaveName:**

Sets the name under which the window's frame is saved in the defaults database.

```
- (void)setWindowFrameAutosaveName:(NSString *)name
```

**Parameters**

*name*

The name under which the window's frame is saved in the defaults database.

**Discussion**

By default, *name* is an empty string, causing no information to be stored in the defaults database.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [windowFrameAutosaveName](#) (page 18)
- `setFrameAutosaveName:` (NSWindow)

**Declared In**

NSWindowController.h

**shouldCascadeWindows**

Returns whether the window will cascade in relation to other document windows when it is displayed.

```
- (BOOL)shouldCascadeWindows
```

**Return Value**

YES if the window will cascade in relation to other document windows, NO otherwise.

**Discussion**

The default is YES.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

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

**Declared In**

NSWindowController.h

**shouldCloseDocument**

Returns whether the receiver necessarily closes the associated document when the window it manages is closed.

- (BOOL)shouldCloseDocument

**Return Value**

YES if the receiver necessarily closes the associated document when the window it manages is closed, NO otherwise.

**Discussion**

If NO, the document is closed only when the last remaining window of the document is closed.

The default is NO.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

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

**Declared In**

NSWindowController.h

**showWindow:**

Displays the window associated with the receiver.

- (IBAction)showWindow:(id)sender

**Parameters**

*sender*

The control sending the message; can be nil.

**Discussion**

If the window is an `NSPanel` object and has its `becomesKeyOnlyIfNeeded` flag set to YES, the window is displayed in front of all other windows but is not made key; otherwise it is displayed in front and is made key. This method is useful for menu actions.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [makeKeyAndOrderFront:](#) (NSWindow)

- [orderFront:](#) (NSWindow)



**Related Sample Code**

CarbonCocoaCoreImageTab

CarbonQuartzComposer\_TV

CoreRecipes

CubePuzzle

Sketch-112

**Declared In**

NSWindowController.h

**synchronizeWindowTitleWithDocumentName**

Synchronizes the displayed window title and the represented filename with the information in the associated document.

```
- (void)synchronizeWindowTitleWithDocumentName
```

**Discussion**

Does nothing if the window controller has no associated document or loaded window. This method queries the window controller's document to get the document's display name and full filename path, then calls [windowTitleForDocumentDisplayName:](#) (page 20) to get the display name to show in the window title.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

NSWindowController.h

**window**

Returns the window owned by the receiver.

```
- (NSWindow *)window
```

**Return Value**

The window owned by the receiver or `nil` if there isn't one.

**Discussion**

If the window has not yet been loaded, this method attempts to load the window's nib file using [loadWindow](#) (page 12). Before it loads the window, it invokes [windowWillLoad](#) (page 20), and if the window controller has a document, it invokes the document's corresponding method `windowControllerWillLoadNib:` (if implemented). After loading the window, this method invokes [windowDidLoad](#) (page 18) and, if there is a document, the NSDocument method `windowControllerDidLoadNib:` (if implemented).

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- `windowControllerWillLoadNib:` (NSDocument)

**Related Sample Code**

CarbonCocoaCoreImageTab

ColorMatching

GridCalendar

iSpend

QTMetadataEditor

**Declared In**

NSWindowController.h

**windowDidLoad**

Sent after the window owned by the receiver has been loaded.

- (void)windowDidLoad

**Discussion**

The default implementation does nothing.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**- [loadWindow](#) (page 12)- [window](#) (page 17)- [windowWillLoad](#) (page 20)**Related Sample Code**

BasicCocoaAnimations

EnhancedAudioBurn

GridCalendar

QTAudioExtractionPanel

Sketch-112

**Declared In**

NSWindowController.h

**windowFrameAutosaveName**

Returns the name under which the frame rectangle of the window owned by the receiver is stored in the defaults database.

- (NSString \*)windowFrameAutosaveName

**Return Value**

The name under which the frame rectangle of the window owned by the receiver is stored in the defaults database.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

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

**Declared In**

NSWindowController.h

## windowNibName

Returns the name of the nib file that stores the window associated with the receiver.

```
- (NSString *)windowNibName
```

**Return Value**

The name of the nib file that stores the window associated with the receiver.

**Discussion**

If [initWithWindowNibName:owner:](#) (page 11) was used to initialize the instance, `windowNibName` returns the last path component with the “.nib” extension stripped off. If [initWithWindowNibName:](#) (page 10) or [initWithWindowNibName:owner:](#) (page 11) was used, `windowNibName` returns the name without the “.nib” extension.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [owner](#) (page 12)

**Related Sample Code**

CarbonCocoaCoreImageTab

CarbonQuartzComposer\_TV

ObjectPath

**Declared In**

NSWindowController.h

## windowNibPath

Returns the full path of the nib file that stores the window associated with the receiver.

```
- (NSString *)windowNibPath
```

**Return Value**

The full path of the nib file that stores the window associated with the receiver; `nil` if it cannot be located.

**Discussion**

If [initWithWindowNibPath:owner:](#) (page 11) was used to initialize the instance, the path is just returned. If [initWithWindowNibName:](#) (page 10) or [initWithWindowNibName:owner:](#) (page 11) was used, `windowNibPath` locates the nib in the file’s owner’s class’ bundle or in the application’s main bundle and returns the full path (or `nil` if it cannot be located). Subclasses can override this to augment the search behavior, but probably ought to call `super` first.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

NSWindowController.h

**windowTitleForDocumentDisplayName:**

Returns the window title to be used for a given document display name.

```
- (NSString *)windowTitleForDocumentDisplayName:(NSString *)displayName
```

**Parameters***displayName*

The display name for the document. This is the last path component under which the document file is saved.

**Discussion**

The default implementation returns *displayName*. Subclasses can override this method to customize the window title. For example, a CAD application could append “-Top” or “-Side,” depending on the view displayed by the window.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

[synchronizeWindowTitleWithDocumentName](#) (page 17)

**Declared In**

NSWindowController.h

**windowWillLoad**

Sent before the window owned by the receiver is loaded.

```
- (void)windowWillLoad
```

**Discussion**

The default implementation does nothing.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [loadWindow](#) (page 12)
- [window](#) (page 17)
- [windowDidLoad](#) (page 18)

**Declared In**

NSWindowController.h

# Document Revision History

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

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

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