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# NSBrowserCell Class Reference

User Experience: Data Presentation



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# NSBrowserCell Class Reference

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<b>Inherits from</b>	NSCell : NSObject
<b>Conforms to</b>	NSCoding (NSCell) NSCopying (NSCell) 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>	Browsers
<b>Declared in</b>	NSBrowserCell.h
<b>Related sample code</b>	NewsReader SimpleCocoaBrowser

## Overview

The `NSBrowserCell` class is the subclass of `NSCell` used by default to display data in the columns of an `NSBrowser` object. (Each column contains an `NSMatrix` filled with `NSBrowserCell` objects.)

The `NSBrowserCell` class implements the user interface of `NSBrowser`.

## Tasks

### Getting Browser Cell Information

- + [branchImage](#) (page 6)  
Returns the default image for branch cells in a browser.
- + [highlightedBranchImage](#) (page 7)  
Returns the default image for branch browser cells that are highlighted.

### Configuring Browser Cells

- [image](#) (page 8)  
Returns the receiver's image.

- [setImage:](#) (page 10)  
Sets the receiver's image, retaining the image.
- [alternateImage](#) (page 7)  
Returns the receiver's image for the highlighted state.
- [setAlternateImage:](#) (page 10)  
Sets the receiver's image for the highlighted state, retaining the image.

## Managing Browser Cell State

- [reset](#) (page 9)  
Unhighlights the receiver and unsets its state.
- [set](#) (page 9)  
Highlights the receiver and sets its state.
- [isLeaf](#) (page 8)  
Returns whether the receiver is a leaf or a branch cell.
- [setLeaf:](#) (page 11)  
Sets whether the receiver is a leaf or a branch cell.
- [isLoading](#) (page 9)  
Returns a Boolean value indicating whether the cell is ready to display.
- [setLoaded:](#) (page 11)  
Sets whether the receiver's state has been set and the cell is ready to display.
- [highlightColorInView:](#) (page 8)  
Returns the highlight color that the receiver wants to display.

## Class Methods

### branchImage

Returns the default image for branch cells in a browser.

```
+ (NSImage *)branchImage
```

#### Return Value

The default image used for branch `NSBrowserCell` objects. The default image is a right-pointing triangle.

#### Discussion

Override this method if you want a different image. To have a branch `NSBrowserCell` with no image (and no space reserved for an image), override this method to return `nil`.

#### Availability

Available in Mac OS X v10.0 and later.

#### See Also

- + [highlightedBranchImage](#) (page 7)
- [alternateImage](#) (page 7)
- [setAlternateImage:](#) (page 10)

**Declared In**

NSBrowserCell.h

## highlightedBranchImage

Returns the default image for branch browser cells that are highlighted.

+ (UIImage \*)highlightedBranchImage

**Return Value**

The default image used for branch `NSBrowserCell` objects that are highlighted. This is a lighter version of the image returned by [branchImage](#) (page 6).

**Discussion**

Override this method if you want a different image.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- + [branchImage](#) (page 6)
- [alternateImage](#) (page 7)
- [setAlternateImage:](#) (page 10)

**Declared In**

NSBrowserCell.h

## Instance Methods

### alternateImage

Returns the receiver's image for the highlighted state.

- (UIImage \*)alternateImage

**Return Value**

The image used for the browser cell in its highlighted state or `nil` if no image is set.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [setAlternateImage:](#) (page 10)

**Declared In**

NSBrowserCell.h

## highlightColorInView:

Returns the highlight color that the receiver wants to display.

- (NSColor \*)highlightColorInView:(NSView \*)*controlView*

### Parameters

*controlView*

The view for which to return the highlight color.

### Return Value

The highlight color.

### Availability

Available in Mac OS X v10.0 and later.

### Declared In

NSBrowserCell.h

## image

Returns the receiver's image.

- (NSImage \*)image

### Return Value

The image of the receiver or `nil` if no image is set.

### Availability

Available in Mac OS X v10.2 and later.

### See Also

- [setImage:](#) (page 10)

### Declared In

NSBrowserCell.h

## isLeaf

Returns whether the receiver is a leaf or a branch cell.

- (BOOL)isLeaf

### Return Value

YES if the receiver is a leaf cell; otherwise NO.

### Discussion

A branch `NSBrowserCell` has an image near its right edge indicating that more, hierarchically related information is available; when the user selects the cell, the `NSBrowser` displays a new column of `NSBrowserCell` objects. A leaf `NSBrowserCell` has no image, indicating that the user has reached a terminal piece of information; it doesn't point to additional information.

### Availability

Available in Mac OS X v10.0 and later.

**See Also**

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

**Declared In**

NSBrowserCell.h

## isLoading

Returns a Boolean value indicating whether the cell is ready to display.

- (BOOL)isLoading

**Return Value**

YES if the receiver's state has been set and the cell is ready to display; otherwise NO.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

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

**Declared In**

NSBrowserCell.h

## reset

Unhighlights the receiver and unsets its state.

- (void)reset

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [set](#) (page 9)

**Declared In**

NSBrowserCell.h

## set

Highlights the receiver and sets its state.

- (void)set

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [reset](#) (page 9)

**Declared In**

NSBrowserCell.h

**setAlternateImage:**

Sets the receiver's image for the highlighted state, retaining the image.

```
- (void)setAlternateImage:(NSImage *)newAltImage
```

**Parameters***newAltImage*

The new image for the browser cell in its highlighted state. If *newAltImage* is `nil`, it removes the alternate image for the receiver. *newAltImage* is drawn vertically centered on the left edge of the browser cell.

Note that *newAltImage* is drawn at the given size of the image. `NSBrowserCell` does not set the size of the image, nor does it clip the drawing of the image. Make sure *newAltImage* is the correct size for drawing in the browser cell.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [alternateImage](#) (page 7)

**Declared In**

NSBrowserCell.h

**setImage:**

Sets the receiver's image, retaining the image.

```
- (void)setImage:(NSImage *)newImage
```

**Parameters***newImage*

The new image. If *newImage* is `nil`, it removes the image for the receiver. *newImage* is drawn vertically centered on the left edge of the browser cell.

Note that *newImage* is drawn at the given size of the image. `NSBrowserCell` does not set the size of the image, nor does it clip the drawing of the image. Make sure *newImage* is the correct size for drawing in the browser cell.

**Availability**

Available in Mac OS X v10.2 and later.

**See Also**

- [image](#) (page 8)

**Declared In**

NSBrowserCell.h

**setLeaf:**

Sets whether the receiver is a leaf or a branch cell.

- (void)setLeaf:(BOOL)*flag*

**Parameters**

*flag*

YES if the receiver is a leaf cell; otherwise NO.

**Discussion**

A branch `NSBrowserCell` has an image near its right edge indicating that more, hierarchically related information is available; when the user selects the cell, the `NSBrowser` displays a new column of `NSBrowserCell` objects. A leaf `NSBrowserCell` has no image, indicating that the user has reached a terminal piece of information; it doesn't point to additional information.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [isLeaf](#) (page 8)

**Related Sample Code**

NewsReader

SimpleCocoaBrowser

**Declared In**

`NSBrowserCell.h`

**setLoaded:**

Sets whether the receiver's state has been set and the cell is ready to display.

- (void)setLoaded:(BOOL)*flag*

**Parameters**

*flag*

YES if the receiver's state has been set and the cell is ready to display; otherwise NO.

**Availability**

Available in Mac OS X v10.0 and later.

**See Also**

- [isLoaded](#) (page 9)

**Declared In**

`NSBrowserCell.h`



# Document Revision History

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

Date	Notes
2007-04-01	Updated for Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

## REVISION HISTORY

### Document Revision History

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