
NSBrowserCell Class Reference

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



2007-04-01



Apple Inc.
© 2007 Apple Inc.
All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission of Apple Inc., with the following exceptions: Any person is hereby authorized to store documentation on a single computer for personal use only and to print copies of documentation for personal use provided that the documentation contains Apple's copyright notice.

The Apple logo is a trademark of Apple Inc.

Use of the "keyboard" Apple logo (Option-Shift-K) for commercial purposes without the prior written consent of Apple may constitute trademark infringement and unfair competition in violation of federal and state laws.

No licenses, express or implied, are granted with respect to any of the technology described in this document. Apple retains all intellectual property rights associated with the technology described in this document. This document is intended to assist application developers to develop applications only for Apple-labeled computers.

Every effort has been made to ensure that the information in this document is accurate. Apple is not responsible for typographical errors.

Apple Inc.
1 Infinite Loop
Cupertino, CA 95014
408-996-1010

Apple, the Apple logo, Cocoa, Mac, and Mac OS are trademarks of Apple Inc., registered in the United States and other countries.

Simultaneously published in the United States and Canada.

Even though Apple has reviewed this document, APPLE MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS DOCUMENT, ITS QUALITY, ACCURACY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. AS A RESULT, THIS DOCUMENT IS PROVIDED "AS IS," AND YOU, THE READER, ARE ASSUMING THE ENTIRE RISK AS TO ITS QUALITY AND ACCURACY.

IN NO EVENT WILL APPLE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY

DEFECT OR INACCURACY IN THIS DOCUMENT, even if advised of the possibility of such damages.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. No Apple dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Some states do not allow the exclusion or limitation of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Contents

NSBrowserCell Class Reference 5

Overview	5
Tasks	5
Getting Browser Cell Information	5
Configuring Browser Cells	5
Managing Browser Cell State	6
Class Methods	6
branchImage	6
highlightedBranchImage	7
Instance Methods	7
alternatImage	7
highlightColorInView:	8
image	8
isLeaf	8
isLoading	9
reset	9
set	9
setAlternatImage:	10
setImage:	10
setLeaf:	11
setLoaded:	11

Document Revision History 13

Index 15

NSBrowserCell Class Reference

Inherits from	NSCell : NSObject
Conforms to	NSCoding (NSCell) NSCopying (NSCell) NSObject (NSObject)
Framework	/System/Library/Frameworks/AppKit.framework
Availability	Available in Mac OS X v10.0 and later.
Companion guide	Browsers
Declared in	NSBrowserCell.h
Related sample code	NewsReader

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

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

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

Index

A

alternateImage [instance method 7](#)

B

branchImage [class method 6](#)

H

highlightColorInView: [instance method 8](#)

highlightedBranchImage [class method 7](#)

I

image [instance method 8](#)

isLeaf [instance method 8](#)

isLoading [instance method 9](#)

R

reset [instance method 9](#)

S

set [instance method 9](#)

setAlternateImage: [instance method 10](#)

setImage: [instance method 10](#)

setLeaf: [instance method 11](#)

setLoaded: [instance method 11](#)