
NSSearchFieldCell Class Reference

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



2008-03-11



Apple Inc.
© 2008 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

NSSearchFieldCell Class Reference 5

Overview	5
Tasks	5
Managing Buttons	5
Custom Layout	6
Managing Menu Templates	6
Managing Search Modes	6
Managing Recent Search Strings	6
Instance Methods	7
cancelButtonCell	7
cancelButtonRectForBounds:	7
maximumRecents	8
recentsAutosaveName	8
recentSearches	9
resetCancelButtonCell	9
resetSearchButtonCell	9
searchButtonCell	10
searchButtonRectForBounds:	10
searchMenuTemplate	11
searchTextRectForBounds:	11
sendsSearchStringImmediately	12
sendsWholeSearchString	12
setCancelButtonCell:	12
setMaximumRecents:	13
setRecentsAutosaveName:	13
setRecentSearches:	14
setSearchButtonCell:	14
setSearchMenuTemplate:	14
setSendsSearchStringImmediately:	15
setSendsWholeSearchString:	15
Constants	16
Menu tags	16

Document Revision History 19

Index 21

NSSearchFieldCell Class Reference

Inherits from	NSTextFieldCell : NSActionCell : NSCell : NSObject
Conforms to	NSCoding (NSCell) NSCopying (NSCell) NSObject (NSObject)
Framework	/System/Library/Frameworks/AppKit.framework
Availability	Available in Mac OS X v10.3 and later.
Companion guide	Search Fields
Declared in	NSSearchFieldCell.h

Overview

The `NSSearchFieldCell` class defines the programmatic interface for text fields that are optimized for text-based searches. An `NSSearchFieldCell` object is “wrapped” by an `NSSearchField` control object, which directly inherits from the `NSTextField` class. The search field implemented by these classes presents a standard user interface for searches, including a search button, a cancel button, and a pop-up icon menu for listing recent search strings and custom search categories.

When the user types and then pauses, the cell’s action message is sent to its target. You can query the cell’s string value for the current text to search for. Do not rely on the sender of the action to be an `NSMenu` object because the menu may change. If you need to change the menu, modify the search menu template and call the `setSearchMenuTemplate:` method to update.

Tasks

Managing Buttons

- [setSearchButtonCell:](#) (page 14)
Sets the button cell used to display the search-button image
- [searchButtonCell](#) (page 10)
Returns the button cell used to display the search-button image.
- [resetSearchButtonCell](#) (page 9)
Resets the search button cell to its default attributes.

- [setCancelButtonCell](#): (page 12)
Sets the button cell object used to display the cancel-button image
- [cancelButtonCell](#) (page 7)
Returns the button cell object used to display the cancel-button image.
- [resetCancelButtonCell](#) (page 9)
Resets the cancel button cell to its default attributes.

Custom Layout

- [searchTextRectForBounds](#): (page 11)
Modifies the bounding rectangle for the search-text field cell.
- [searchButtonRectForBounds](#): (page 10)
Modifies the bounding rectangle for the search button cell.
- [cancelButtonRectForBounds](#): (page 7)
Modifies the bounding rectangle for the cancel button cell.

Managing Menu Templates

- [setSearchMenuTemplate](#): (page 14)
Sets the menu template object used to dynamically construct the receiver's pop-up icon menu.
- [searchMenuTemplate](#) (page 11)
Returns the menu template object used to dynamically construct the search pop-up icon menu.

Managing Search Modes

- [setSendsWholeSearchString](#): (page 15)
Sets whether the receiver sends the search action message when the user clicks the search button (or presses return) or after each keystroke.
- [sendsWholeSearchString](#) (page 12)
Returns a Boolean value indicating whether the receiver sends the search action message when the user clicks the search button (or presses return) or after each keystroke.
- [sendsSearchStringImmediately](#) (page 12)
Returns a Boolean value indicating whether the receiver sends its action immediately upon being notified of changes to the search field text or after a brief pause.
- [setSendsSearchStringImmediately](#): (page 15)
Sets whether the cell sends its action message to the target immediately upon notification of any changes to the search field text or after a brief pause.

Managing Recent Search Strings

- [setMaximumRecents](#): (page 13)
Sets the maximum number of search strings that can appear in the search menu

- [maximumRecents](#) (page 8)
Returns the maximum number of recent search strings to display in the custom search menu.
- [setRecentSearches:](#) (page 14)
Sets the list of recent search strings to list in the pop-up icon menu of the receiver.
- [recentSearches](#) (page 9)
Returns the list of recent search strings for the control.
- [setRecentsAutosaveName:](#) (page 13)
Sets the autosave name under which the receiver automatically archives the list of recent search strings.
- [recentsAutosaveName](#) (page 8)
Returns the key under which the prior list of recent search strings has been archived.

Instance Methods

cancelButtonCell

Returns the button cell object used to display the cancel-button image.

```
- (NSButtonCell *)cancelButtonCell
```

Return Value

The cancel button cell.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [setCancelButtonCell:](#) (page 12)
- [resetCancelButtonCell](#) (page 9)

Declared In

NSSearchFieldCell.h

cancelButtonRectForBounds:

Modifies the bounding rectangle for the cancel button cell.

```
- (NSRect)cancelButtonRectForBounds:(NSRect)rect
```

Parameters

rect

The current bounding rectangle for the cancel button.

Return Value

The updated bounding rectangle to use for the cancel button. The default value is the value passed into the *rect* parameter.

Discussion

Subclasses can override this method to return a new bounding rectangle for the cancel button cell. You might use this method to provide a custom layout for the search field control.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [searchButtonRectForBounds:](#) (page 10)
- [searchTextRectForBounds:](#) (page 11)

Declared In

NSSearchFieldCell.h

maximumRecents

Returns the maximum number of recent search strings to display in the custom search menu.

- (NSInteger)maximumRecents

Return Value

The maximum number of search strings that can appear in the menu. This value is between 0 and 254.

Availability

Available in Mac OS X v10.3 and later.

See Also

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

Declared In

NSSearchFieldCell.h

recentsAutosaveName

Returns the key under which the prior list of recent search strings has been archived.

- (NSString *)recentsAutosaveName

Return Value

The autosave name, which is used as a key in the standard user defaults to save the recent searches. The default value is `nil`, which causes searches not to be autosaved.

Availability

Available in Mac OS X v10.3 and later.

See Also

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

Declared In

NSSearchFieldCell.h

recentSearches

Returns the list of recent search strings for the control.

- (NSArray *)recentSearches

Return Value

An array of `NSString` objects, each of which contains a search string either displayed in the search menu or from a recent autosave archive. If there have been no recent searches and no prior searches saved under an autosave name, this array may be empty.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [setRecentsAutosaveName:](#) (page 13)
- [setRecentSearches:](#) (page 14)

Declared In

`NSSearchFieldCell.h`

resetCancelButtonCell

Resets the cancel button cell to its default attributes.

- (void)resetCancelButtonCell

Discussion

This method resets the target, action, regular image, and pressed image. By default, when users click the cancel button, the `delete:` action message is sent up the responder chain to the first `NSText` object that can handle it. This method gives you a way to customize the cancel button for specific situations and then reset the button defaults without having to undo changes individually.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [setCancelButtonCell:](#) (page 12)
- [cancelButtonCell](#) (page 7)

Declared In

`NSSearchFieldCell.h`

resetSearchButtonCell

Resets the search button cell to its default attributes.

- (void)resetSearchButtonCell

Discussion

This method resets the target, action, regular image, and pressed image. By default, when users click the search button or press the Return key, the action defined for the receiver is sent to its designated target. This method gives you a way to customize the search button for specific situations and then reset the button defaults without having to undo changes individually.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [setSearchButtonCell:](#) (page 14)
- [searchButtonCell](#) (page 10)

Declared In

NSSearchBarCell.h

searchButtonCell

Returns the button cell used to display the search-button image.

```
- (NSButtonCell *)searchButtonCell
```

Return Value

The search button cell.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [setSearchButtonCell:](#) (page 14)
- [resetSearchButtonCell](#) (page 9)

Declared In

NSSearchBarCell.h

searchButtonRectForBounds:

Modifies the bounding rectangle for the search button cell.

```
- (NSRect)searchButtonRectForBounds:(NSRect)rect
```

Parameters

rect

The current bounding rectangle for the search button.

Return Value

The updated bounding rectangle to use for the search button. The default value is the value passed into the *rect* parameter.

Discussion

Subclasses can override this method to return a new bounding rectangle for the search button cell. You might use this method to provide a custom layout for the search field control.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [cancelButtonRectForBounds:](#) (page 7)
- [searchTextRectForBounds:](#) (page 11)

Declared In

NSSearchFieldCell.h

searchMenuTemplate

Returns the menu template object used to dynamically construct the search pop-up icon menu.

- (NSMenu *)searchMenuTemplate

Return Value

The current menu template.

Availability

Available in Mac OS X v10.3 and later.

See Also

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

Declared In

NSSearchFieldCell.h

searchTextRectForBounds:

Modifies the bounding rectangle for the search-text field cell.

- (NSRect)searchTextRectForBounds:(NSRect)rect

Parameters

rect

The current bounding rectangle for the search text field.

Return Value

The updated bounding rectangle to use for the search text field. The default value is the value passed into the *rect* parameter.

Discussion

Subclasses can override this method to return a new bounding rectangle for the text-field cell object. You might use this method to provide a custom layout for the search field control.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [cancelButtonRectForBounds:](#) (page 7)
- [searchButtonRectForBounds:](#) (page 10)

Declared In

NSSearchFieldCell.h

sendsSearchStringImmediately

Returns a Boolean value indicating whether the receiver sends its action immediately upon being notified of changes to the search field text or after a brief pause.

- (BOOL)sendsSearchStringImmediately

Return Value

YES if the cell sends its action immediately upon notification of any changes to the search field; otherwise, NO.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSSearchFieldCell.h

sendsWholeSearchString

Returns a Boolean value indicating whether the receiver sends the search action message when the user clicks the search button (or presses return) or after each keystroke.

- (BOOL)sendsWholeSearchString

Return Value

YES if the action message is sent all at once when the user clicks the search button or presses return; otherwise, NO if the search string is sent after each keystroke. The default value is NO.

Availability

Available in Mac OS X v10.3 and later.

See Also

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

Declared In

NSSearchFieldCell.h

setCancelButtonCell:

Sets the button cell object used to display the cancel-button image

- (void)setCancelButtonCell:(NSButtonCell *)*cell*

Parameters

cell

The cancel button cell.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [cancelButtonCell](#) (page 7)
- [resetCancelButtonCell](#) (page 9)

Declared In

NSSearchFieldCell.h

setMaximumRecents:

Sets the maximum number of search strings that can appear in the search menu

```
- (void)setMaximumRecents:(NSInteger)maxRecents
```

Parameters

maxRecents

The maximum number of search strings that can appear in the menu. This value can be between 0 and 254. Specifying a value less than 0 sets the value to the default, which is 10. Specifying a value greater than 254 sets the maximum to 254.

Discussion

When the limit is exceeded, the oldest search string on the menu is dropped.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [maximumRecents](#) (page 8)

Declared In

NSSearchFieldCell.h

setRecentsAutosaveName:

Sets the autosave name under which the receiver automatically archives the list of recent search strings.

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

Parameters

name

The autosave name, which is used as a key in the standard user defaults to save the recent searches. If you specify `nil` or an empty string for this parameter, no autosave name is set and searches are not autosaved.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [recentsAutosaveName](#) (page 8)
- [setRecentSearches:](#) (page 14)

Declared In

NSSearchFieldCell.h

setRecentSearches:

Sets the list of recent search strings to list in the pop-up icon menu of the receiver.

- (void)setRecentSearches:(NSArray *)*searches***Parameters***searches*

An array of NSString objects containing the search strings.

Discussion

You might use this method to set the recent list of searches from an archived copy.

Availability

Available in Mac OS X v10.3 and later.

See Also- [recentSearches](#) (page 9)**Declared In**

NSSearchFieldCell.h

setSearchButtonCell:

Sets the button cell used to display the search-button image

- (void)setSearchButtonCell:(NSButtonCell *)*cell***Parameters***cell*

The search button cell.

Availability

Available in Mac OS X v10.3 and later.

See Also- [searchButtonCell](#) (page 10)- [resetSearchButtonCell](#) (page 9)**Declared In**

NSSearchFieldCell.h

setSearchMenuTemplate:

Sets the menu template object used to dynamically construct the receiver's pop-up icon menu.

- (void)setSearchMenuTemplate:(NSMenu *)*menu*

Parameters*menu*

The menu template to use.

Discussion

The receiver looks for the tag constants described in “Menu tags” (page 16) to determine how to populate the menu with items related to recent searches. See “Configuring a Search Menu” for a sample of how you might set up the search menu template.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [searchMenuTemplate](#) (page 11)

Declared In

NSSearchFieldCell.h

setSendsSearchStringImmediately:

Sets whether the cell sends its action message to the target immediately upon notification of any changes to the search field text or after a brief pause.

- (void)setSendsSearchStringImmediately:(BOOL)flag

Parameters*flag*

YES to send the cell's action immediately upon notification of any changes to the search field; otherwise, NO if you want the cell to pause briefly before sending its action message. Pausing gives the user the opportunity to type more text into the search field before initiating the search.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [sendsSearchStringImmediately](#) (page 12)

Declared In

NSSearchFieldCell.h

setSendsWholeSearchString:

Sets whether the receiver sends the search action message when the user clicks the search button (or presses return) or after each keystroke.

- (void)setSendsWholeSearchString:(BOOL)flag

Parameters*flag*

YES to send the action message all at once when the user clicks the search button or presses return; otherwise, NO to send the search string after each keystroke.

Availability

Available in Mac OS X v10.3 and later.

See Also

- [sendsWholeSearchString](#) (page 12)

Declared In

NSSearchFieldCell.h

Constants

Menu tags

The `NSSearchFieldCell` class uses these tag constants for identifying special menu items in the search-menu template set by `setSearchMenuTemplate:` (page 14). When an `NSSearchFieldCell` object dynamically constructs the actual search menu from this template, it shows or hides the tagged items as directed.

```
#define NSSearchFieldRecentsTitleMenuItemTag    1000
#define NSSearchFieldRecentsMenuItemTag        1001
#define NSSearchFieldClearRecentsMenuItemTag    1002
#define NSSearchFieldNoRecentsMenuItemTag      1003
```

Constants

`NSSearchFieldRecentsTitleMenuItemTag`

Identifies the menu item that is the title of the menu group for recent search strings.

This item is hidden if there are no recent strings.

You may use this tagged item for separator characters that also do not appear if there are no recent strings to display.

Available in Mac OS X v10.3 and later.

Declared in `NSSearchFieldCell.h`.

`NSSearchFieldRecentsMenuItemTag`

Identifies where recent search strings should appear in the “recents” menu group.

Available in Mac OS X v10.3 and later.

Declared in `NSSearchFieldCell.h`.

`NSSearchFieldClearRecentsMenuItemTag`

Identifies the menu item for clearing the current set of recent string searches in the menu.

This item is hidden if there are no recent strings.

Available in Mac OS X v10.3 and later.

Declared in `NSSearchFieldCell.h`.

`NSSearchFieldNoRecentsMenuItemTag`

Identifies the menu item that describes a lack of recent search strings (for example, “No recent searches”).

This item is hidden if there have been recent searches.

Available in Mac OS X v10.3 and later.

Declared in `NSSearchFieldCell.h`.

Availability

Available in Mac OS X v10.3 and later.

Declared In

NSSearchFieldCell.h

Document Revision History

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

Date	Notes
2008-03-11	Disambiguated the descriptions of the methods <code>setSendsSearchStringImmediately:</code> and <code>setSendsWholeSearchString:</code> .
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

Document Revision History

Index

C

`cancelButtonCell` [instance method 7](#)
`cancelButtonRectForBounds`: [instance method 7](#)

M

`maximumRecents` [instance method 8](#)
[Menu tags 16](#)

N

`NSSearchFieldClearRecentsMenuItemTag` [constant 16](#)
`NSSearchFieldNoRecentsMenuItemTag` [constant 16](#)
`NSSearchFieldRecentsMenuItemTag` [constant 16](#)
`NSSearchFieldRecentsTitleMenuItemTag` [constant 16](#)

R

`recentsAutosaveName` [instance method 8](#)
`recentSearches` [instance method 9](#)
`resetCancelButtonCell` [instance method 9](#)
`resetSearchButtonCell` [instance method 9](#)

S

`searchButtonCell` [instance method 10](#)
`searchButtonRectForBounds`: [instance method 10](#)
`searchMenuTemplate` [instance method 11](#)
`searchTextRectForBounds`: [instance method 11](#)
`sendsSearchStringImmediately` [instance method 12](#)
`sendsWholeSearchString` [instance method 12](#)
`setCancelButtonCell`: [instance method 12](#)

`setMaximumRecents`: [instance method 13](#)
`setRecentsAutosaveName`: [instance method 13](#)
`setRecentSearches`: [instance method 14](#)
`setSearchButtonCell`: [instance method 14](#)
`setSearchMenuTemplate`: [instance method 14](#)
`setSendsSearchStringImmediately`: [instance method 15](#)
`setSendsWholeSearchString`: [instance method 15](#)