NSCell Class Reference

Cocoa > User Experience



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|---------------------|--|
| Conforms to | NSCoding NSCopying NSObject (NSObject) |
| Framework | /System/Library/Frameworks/AppKit.framework |
| Availability | Available in Mac OS X v10.0 and later. |
| Companion guide | Control and Cell Programming Topics for Cocoa |
| Declared in | NSCell.h |
| Related sample code | QTKitMovieShuffler Quartz Composer WWDC 2005 TextEdit TextEditPlus TrackBall VertexPerformanceTest |

Overview

The NSCell class provides a mechanism for displaying text or images in an NSView object without the overhead of a full NSView subclass. It's used heavily by most of the NSControl classes to implement their internal workings.

Adopted Protocols

NSCoding

encodeWithCoder:
initWithCoder:

NSCopying

copyWithZone:

Tasks

Initializing a Cell

- initImageCell: (page 38)
 Returns an NSCell object initialized with the specified image and set to have the cell's default menu.
- initTextCell: (page 38)
 Returns an NSCell object initialized with the specified string and set to have the cell's default menu.

Managing Cell Values

- setObjectValue: (page 66)
 Sets the receiver's object value.
- objectValue (page 47)
 Returns the receiver's value as an Objective-C object
- hasValidObjectValue (page 34)
 Returns a Boolean value that indicates whether the receiver has a valid object value.
- setIntValue: (page 64)
 Sets the value of the receiver using an integer.
- intValue (page 39)

Returns the receiver's value as an integer.

- setIntegerValue: (page 63)
 Sets the value of the receiver using an NSInteger.
- integerValue (page 38)
 - Returns the receiver's value as an NSInteger.
- setStringValue: (page 70)
 Sets the value of the receiver's cell using an NSString object.
- stringValue (page 77)

Returns the value of the receiver's cell as an NSString object.

- setDoubleValue: (page 58)

Sets the value of the receiver's cell using a double-precision floating-point number.

- doubleValue (page 28)

Returns the value of the receiver's cell as a double-precision floating-point number.

- setFloatValue: (page 60)

Sets the value of the receiver's cell using a single-precision floating-point number.

- floatValue (page 32)

Returns the value of the receiver's cell as a single-precision floating-point number.

Managing Cell Attributes

setCellAttribute:to: (page 56)
 Sets the value for the specified cell attribute.

- cellAttribute: (page 24)

Returns the value for the specified cell attribute.

- setType: (page 73)

Sets the type of the cell, changing it to a text cell, image cell, or null cell.

type (page 83)

Returns the type of the receiver

- setEnabled: (page 59)

Sets whether the receiver is enabled or disabled.

- isEnabled (page 41)

Returns a Boolean value that indicates whether the receiver is enabled or disabled.

- allowsUndo (page 22)

Returns a Boolean value that indicates whether the receiver assumes responsibility for undo operations.

setAllowsUndo: (page 53)
 Sets whether the receiver assumes responsibility for undo operations within the cell.

Managing Display Attributes

- setBezeled: (page 55)
 Sets whether the receiver draws itself with a bezeled border.
- isBezeled (page 40)

Returns a Boolean value that indicates whether the receiver has a bezeled border.

- setBordered: (page 55)

Sets whether the receiver draws itself outlined with a plain border.

- isBordered (page 40)

Returns a Boolean value that indicates whether the receiver has a plain border.

- isOpaque (page 42)

Returns a Boolean value that indicates whether the receiver is opaque (nontransparent).

- setControlTint: (page 57)

Sets the receiver's control tint.

controlTint (page 27)

Returns the receiver's control tint.

- setBackgroundStyle: (page 54)
 Sets the background style for the receiver.
- backgroundStyle (page 23)
 Returns the background style for the receiver.
- interiorBackgroundStyle (page 39)

Returns the interior background style for the receiver.

Managing Cell State

- allowsMixedState (page 21)

Returns a Boolean value that indicates whether the receiver supports three states.

- nextState (page 46)

Returns the receiver's next state.

- setAllowsMixedState: (page 52)
 - Sets whether the receiver supports three states or just two.
- setNextState (page 66)

Changes the state of the receiver to its next state.

- setState: (page 69)

Sets the receiver's state to the specified value.

state (page 76)
 Returns the receiver's state.

Modifying Textual Attributes

- setEditable: (page 58)
 Sets whether the user can edit the receiver's text.
- isEditable (page 41)

Returns a Boolean value that indicates whether the receiver is editable.

- setSelectable: (page 68)

Sets whether text in the receiver can be selected.

- isSelectable (page 43)

Returns a Boolean value that indicates whether the text of the receiver can be selected.

- setScrollable: (page 67)

Sets whether excess text in the receiver is scrolled past the cell's bounds.

- isScrollable (page 43)

Returns a Boolean value that indicates whether the receiver scrolls excess text past the cell's bounds.

- setAlignment: (page 52)

Sets the alignment of text in the receiver.

- alignment (page 21)

Returns the alignment of text in the receiver.

- setFont: (page 61)

Sets the font to use when the receiver displays text.

- font (page 33)

Returns the font used to display text in the receiver

- lineBreakMode (page 44)

Returns the line break mode currently used when drawing text.

- setLineBreakMode: (page 64)

Sets the line break mode to use when drawing text

- truncatesLastVisibleLine (page 83)

Returns a Boolean value indicating whether the receiver truncates and adds the ellipsis character to the last visible line if the text doesn't fit into the cell bounds.

- setTruncatesLastVisibleLine: (page 72)

Sets whether the receiver truncates and adds the ellipsis character to the last visible line if the text doesn't fit into the cell bounds.

- setWraps: (page 74)

Sets whether text in the receiver wraps when its length exceeds the frame of the cell.

- wraps (page 84)

Returns a Boolean value that indicates whether the receiver wraps its text when the text exceeds the borders of the cell.

- baseWritingDirection (page 23)

Returns the initial writing direction used to determine the actual writing direction for text.

- setBaseWritingDirection: (page 54)

Sets the initial writing direction used to determine the actual writing direction for text .

- setAttributedStringValue: (page 53)

Sets the value of the receiver's cell using an attributed string.

- attributedStringValue (page 22)

Returns the value of the receiver's cell as an attributed string using the receiver's formatter object (if one exists).

- setAllowsEditingTextAttributes: (page 52)

Sets whether the receiver allows the user to edit textual attributes of its contents.

- allowsEditingTextAttributes (page 21)

Returns a Boolean value that indicates whether the receiver allows user editing of textual attributes.

- setImportsGraphics: (page 63)

Sets whether the receiver can import images into its text.

- importsGraphics (page 37)

Returns a Boolean value that indicates whether the text of the receiver can contain imported graphics.

- setUpFieldEditorAttributes: (page 73)

Configures the textual and background attributes of the receiver's field editor.

- title (page 81)

Returns the receiver's title.

setTitle: (page 71)
 Sets the title of the receiver.

Managing the Target and Action

- setAction: (page 51)

Sets the cell's action method to the specified selector.

- action (page 20)

Returns the default action-message selector associated with the cell.

- setTarget: (page 71)

Sets the target object to receive action messages.

- target (page 81)

Returns the target object of the receiver.

- setContinuous: (page 56)

Sets whether the receiver's cell sends its action message continuously to its target during mouse tracking.

- isContinuous (page 40)

Returns a Boolean value that indicates whether the receiver's cell sends its action message continuously to its target during mouse tracking.

- sendActionOn: (page 50)

Sets the conditions on which the receiver sends action messages to its target.

Managing the Image

- setImage: (page 62)

Sets the image to be displayed by the receiver.

- image (page 36)

Returns the image displayed by the receiver (if any).

- preparedImage (page 47)

Returns the prepared image for the receiver.

Managing the Tag

- setTag: (page 70)
 Sets the tag of the receiver.
- tag (page 78)
 Returns the tag identifying the receiver.

Formatting and Validating Data

- setFormatter: (page 62) Sets the receiver's formatter object.
- formatter (page 33)
 Returns the receiver's formatter object.
- isEntryAcceptable: (page 41)

Returns whether a string representing a numeric or date value is formatted in a suitable way for the cell's entry type.

- setFloatingPointFormat:left:right: (page 59)

Sets the autoranging and floating point number format of the receiver's cell.

- entryType (page 99) Deprecated in Mac OS X v10.0 and later
 - Returns the type of data the user can type into the receiver. (Deprecated. Use a formatter instead—see setFormatter: (page 62).)
- setEntryType: (page 99) Deprecated in Mac OS X v10.0 and later

Sets how numeric data is formatted in the receiver and places restrictions on acceptable input. (Deprecated. Use a formatter instead—see setFormatter: (page 62).)

Managing Menus

- + defaultMenu (page 19)
 - Returns the default menu for instances of the receiver.
- setMenu: (page 65)
 Sets the contextual menu for the cell.
- menu (page 44)

Returns the receiver's contextual menu.

- menuForEvent:inRect:ofView: (page 44)

Returns the menu associated with the receiver and related to the specified event and frame.

Comparing Cells

- compare: (page 26)

Compares the string values of the receiver another cell, disregarding case.

Respond to Keyboard Events

- acceptsFirstResponder (page 20)

Returns a Boolean value that indicates whether the receiver accepts first responder status.

- setShowsFirstResponder: (page 69)

Sets whether the receiver draws some indication of its first responder status.

- showsFirstResponder (page 75)

Returns a Boolean value that indicates whether the receiver should draw some indication of its first responder status.

- setTitleWithMnemonic: (page 72)

Sets the title of the receiver with one character in the string denoted as an access key.

- mnemonic (page 45)

Returns the character in the receiver's title that appears underlined for use as a mnemonic.

- refusesFirstResponder (page 48)

Returns a Boolean value that indicates whether the receiver should not become the first responder.

- setMnemonicLocation: (page 65)
 Sets the character of the receiver's title to be used as a mnemonic character.
- setRefusesFirstResponder: (page 66)

Sets whether the receiver should not become the first responder.

- mnemonicLocation (page 45)

Returns the position of the underlined mnemonic character in the receiver's title.

- performClick: (page 47)

Simulates a single mouse click on the receiver.

Deriving Values

- takeObjectValueFrom: (page 80)
 - Sets the value of the receiver's cell to the object value obtained from the specified object.
- takeIntegerValueFrom: (page 79)
 - Sets the value of the receiver's cell to an integer value obtained from the specified object.
- takeIntValueFrom: (page 79)
 - Sets the value of the receiver's cell to an integer value obtained from the specified object.
- takeStringValueFrom: (page 80)
 Sets the value of the receiver's cell to the string value obtained from the specified object.
- takeDoubleValueFrom: (page 78)

Sets the value of the receiver's cell to a double-precision floating-point value obtained from the specified object.

- takeFloatValueFrom: (page 79)

Sets the value of the receiver's cell to a single-precision floating-point value obtained from the specified object.

Representing an Object

- setRepresentedObject: (page 67)
 Sets the object represented by the receiver.
- representedObject (page 48)
 Returns the object the receiver represents.

Tracking the Mouse

- trackMouse:inRect:ofView:untilMouseUp: (page 82)
 Initiates the mouse tracking behavior in a cell.
- startTrackingAt:inView: (page 75)
 Begins tracking mouse events within the receiver.
- continueTracking:at:inView: (page 26)
 Returns a Boolean value that indicates whether mouse tracking should continue in the receiving cell.
- stopTracking:at:inView:mouseIsUp: (page 76)
 Stops tracking mouse events within the receiver.
- mouseDownFlags (page 46)
 - Returns the modifier flags for the last (left) mouse-down event.
- + prefersTrackingUntilMouseUp (page 19)
 - Returns a Boolean value that indicates whether tracking stops when the cursor leaves the cell.
- getPeriodicDelay:interval: (page 33)
 - Returns the initial delay and repeat values for continuous sending of action messages to target objects.

Hit Testing

hitTestForEvent:inRect:ofView: (page 36)
 Returns hit testing information for the receiver.

Managing the Cursor

resetCursorRect:inView: (page 49)
 Sets the receiver to show the I-beam cursor while it tracks the mouse.

Handling Keyboard Alternatives

keyEquivalent (page 43)
 Returns the key equivalent to clicking the cell.

Managing Focus Rings

- + defaultFocusRingType (page 19)
 Returns the default type of focus ring for the receiver.
- setFocusRingType: (page 61)
 Sets the type of focus ring to be used.
- focusRingType (page 32)
 Returns the type of focus ring currently set for the receiver.

Determining Cell Size

- calcDrawInfo: (page 24)
 Recalculates the cell geometry.
- cellSize (page 25)
 Returns the minimum size needed to display the receiver.
- cellSizeForBounds: (page 25)
 - Returns the minimum size needed to display the receiver, constraining it to the specified rectangle.
- drawingRectForBounds: (page 28)
 - Returns the rectangle within which the receiver draws itself
- imageRectForBounds: (page 37)
 Returns the rectangle in which the receiver draws its image.
- titleRectForBounds: (page 82)
 Returns the rectangle in which the receiver draws its title text.
- controlSize (page 27)
 Returns the size of the receiver.
- setControlSize: (page 56) Sets the size of the receiver.

Drawing and Highlighting

- drawWithFrame:inView: (page 30)

Draws the receiver's border and then draws the interior of the cell.

- highlightColorWithFrame:inView: (page 35)

Returns the color the receiver uses when drawing the selection highlight.

- drawInteriorWithFrame:inView: (page 28)

Draws the interior portion of the receiver, which includes the image or text portion but does not include the border.

- controlView (page 27)

Returns the receiver's control.

- setControlView: (page 57)
 Sets the receiver's control view.
- highlight:withFrame:inView: (page 34)
 Redraws the receiver with the specified highlight setting.
- setHighlighted: (page 62)
 Sets whether the receiver has a highlighted appearance.
- isHighlighted (page 42)

Returns a Boolean value that indicates whether the receiver is highlighted.

Editing and Selecting Text

- editWithFrame:inView:editor:delegate:event: (page 30)
 Begins editing of the receiver's text using the specified field editor.
- selectWithFrame:inView:editor:delegate:start:length: (page 49)
 Selects the specified text range in the cell's field editor.
- sendsActionOnEndEditing (page 50)

Returns a Boolean value that indicates whether the receiver's NSControl object sends its action message whenever the user finishes editing the cell's text.

- setSendsActionOnEndEditing: (page 68)

Sets whether the receiver's NSControl object sends its action message whenever the user finishes editing the cell's text.

- endEditing: (page 31)

Ends the editing of text in the receiver using the specified field editor.

- wantsNotificationForMarkedText (page 84)

Returns a Boolean value that indicates whether the field editor initiated by the receiver should post text change notifications.

Managing Expansion Frames

- expansionFrameWithFrame:inView: (page 31)
 Returns the expansion cell frame for the receiver.
- drawWithExpansionFrame:inView: (page 29)
 Instructs the receiver to draw in an expansion frame.

Class Methods

defaultFocusRingType

Returns the default type of focus ring for the receiver.

+ (NSFocusRingType)defaultFocusRingType

Return Value

The default type of focus ring for the receiver (one of the values listed in NSFocusRingType).

Availability

Available in Mac OS X v10.3 and later.

Declared In

NSCell.h

defaultMenu

Returns the default menu for instances of the receiver.

+ (NSMenu *)defaultMenu

Return Value

The default menu. The NSCell implementation of this method returns nil.

Availability

Available in Mac OS X v10.0 and later.

See Also

- menu (page 44)
- setMenu: (page 65)

Declared In

NSCell.h

prefersTrackingUntilMouseUp

Returns a Boolean value that indicates whether tracking stops when the cursor leaves the cell.

+ (BOOL)prefersTrackingUntilMouseUp

Return Value

YES if tracking stops when the cursor leaves the cell, otherwise NO.

Discussion

The default implementation returns NO. Subclasses may override this method to return a different value.

Availability

Available in Mac OS X v10.0 and later.

See Also
- trackMouse:inRect:ofView:untilMouseUp: (page 82)

Declared In NSCell.h

Instance Methods

acceptsFirstResponder

Returns a Boolean value that indicates whether the receiver accepts first responder status.

- (BOOL)acceptsFirstResponder

Return Value

YES if the receiver can become the first responder, otherwise NO.

Discussion

The default value is YES if the receiver is enabled. Subclasses may override this method to return a different value.

Availability

Available in Mac OS X v10.0 and later.

See Also

- performClick: (page 47)
- setShowsFirstResponder: (page 69)
- setTitleWithMnemonic: (page 72)

Declared In

NSCell.h

action

Returns the default action-message selector associated with the cell.

- (SEL)action

Return Value

The selector associated with the cell. The NSCell implementation of this method returns NULL by default.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setAction: (page 51)
- setTarget: (page 71)
- target (page 81)

Declared In

NSCell.h

alignment

Returns the alignment of text in the receiver.

- (NSTextAlignment)alignment

Return Value

The alignment of text in the receiver (one of the following constants: NSLeftTextAlignment, NSRightTextAlignment,NSCenterTextAlignment, NSJustifiedTextAlignment, NSNaturalTextAlignment).

Discussion

The default value is NSNaturalTextAlignment.

Availability

Available in Mac OS X v10.0 and later.

See Also
- setAlignment: (page 52)

Declared In

NSCell.h

allowsEditingTextAttributes

Returns a Boolean value that indicates whether the receiver allows user editing of textual attributes.

```
- (BOOL)allowsEditingTextAttributes
```

Return Value

YES if the receiver allows the user to edit textual attributes of the cell's text, otherwise NO.

Availability

Available in Mac OS X v10.0 and later.

See Also
- setAllowsEditingTextAttributes: (page 52)

Declared In NSCell.h

allowsMixedState

Returns a Boolean value that indicates whether the receiver supports three states.

```
- (BOOL)allowsMixedState
```

Return Value

YES if the receiver supports all three states (on, off, and mixed), otherwise N0 (the receiver supports only the on and off states).

Availability

Available in Mac OS X v10.0 and later.

See Also

- nextState (page 46)
- setAllowsMixedState: (page 52)
- setNextState (page 66)

Declared In

NSCell.h

allowsUndo

Returns a Boolean value that indicates whether the receiver assumes responsibility for undo operations.

- (BOOL)allowsUndo

Return Value

YES if the receiver handles undo operations, otherwise NO.

Discussion

By default, the NSTextFieldCell class uses this feature to handle undo operations for edited text. Other controls set a value that is appropriate for their implementation.

Availability

Available in Mac OS X v10.4 and later.

See Also

- setAllowsUndo: (page 53)

Declared In

NSCell.h

attributedStringValue

Returns the value of the receiver's cell as an attributed string using the receiver's formatter object (if one exists).

- (NSAttributedString *)attributedStringValue

Return Value

The value of the cell interpreted as an attributed string.

Discussion

The textual attributes are the default paragraph style, the receiver's font and alignment, and whether the receiver is enabled and scrollable.

For Mac OS X v10.3 and later: If you use a class that responds to the selector attributedStringValue for the object value of a cell, then the cell will use that method to fetch the string to draw rather than using stringValue (page 77).

Availability

Available in Mac OS X v10.0 and later.

See Also

- setAttributedStringValue: (page 53)

Declared In NSCell.h

backgroundStyle

Returns the background style for the receiver.

- (NSBackgroundStyle)backgroundStyle

Return Value

The background style for the receiver.

Discussion

The background describes the surface the cell is drawn onto in drawWithFrame:inView: (page 30). A control typically sets this before it asks the cell to draw. A cell may draw differently based on background characteristics. For example, a tableview drawing a cell in a selected row might call [cell setBackgroundStyle:NSBackgroundStyleDark]. A text cell might decide to render its text white as a result. A rating-style level indicator might draw its stars white instead of gray.

Availability

Available in Mac OS X v10.5 and later.

Declared In NSCell.h

baseWritingDirection

Returns the initial writing direction used to determine the actual writing direction for text.

- (NSWritingDirection)baseWritingDirection

Return Value

The initial writing direction the receiver uses to determine the actual writing direction for text (one of the following values: NSWritingDirectionNatural, NSWritingDirectionLeftToRight, NSWritingDirectionRightToLeft). If no writing direction is set, returns NSWritingDirectionNatural.

Discussion

The default value is NSWritingDirectionNatural.

The Text system uses this value as a hint for calculating the actual direction for displaying Unicode characters. You should not need to call this method directly.

Availability

Available in Mac OS X v10.4 and later.

See Also

- setBaseWritingDirection: (page 54)

Declared In

NSCell.h

calcDrawInfo:

Recalculates the cell geometry.

- (void)calcDrawInfo:(NSRect)aRect

Parameters

aRect

The reference rectangle to use when calculating the cell information.

Discussion

Objects (such as controls) that manage NSCell objects generally maintain a flag that informs them if any of their cells have been modified in such a way that the location or size of the cell should be recomputed. If so, calcSize method of NSControl is automatically invoked prior to the display of the cell, and that method invokes the calcDrawInfo: method of the cell.

The default implementation of this method does nothing.

Availability

Available in Mac OS X v10.0 and later.

See Also

- cellSize (page 25)
- drawingRectForBounds: (page 28)

Declared In

NSCell.h

cellAttribute:

Returns the value for the specified cell attribute.

- (NSInteger)cellAttribute:(NSCellAttribute)aParameter

Parameters

```
aParameter
```

The cell attribute whose value you want to get. Attributes include the receiver's current state and whether it is disabled, editable, or highlighted.

Return Value

The value for the cell attribute specified by *aParameter*.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setCellAttribute:to: (page 56)

Declared In NSCell.h

cellSize

Returns the minimum size needed to display the receiver.

- (NSSize)cellSize

Return Value

The size of the cell, or the size (10000, 10000) if the receiver is not a text or image cell. If the cell is an image cell but no image has been set, returns NSZeroSize.

Discussion

This method takes into account of the size of the image or text within a certain offset determined by the border type of the cell.

Availability Available in Mac OS X v10.0 and later.

See Also
- drawingRectForBounds: (page 28)

Declared In

NSCell.h

cellSizeForBounds:

Returns the minimum size needed to display the receiver, constraining it to the specified rectangle.

```
- (NSSize)cellSizeForBounds:(NSRect)aRect
```

Parameters

aRect

The size of the cell, or the size of the aRect parameter if the cell is not a text or image cell. If the cell is an image cell but no image has been set, returns NSZeroSize.

Discussion

This method takes into account of the size of the image or text within a certain offset determined by the border type of the cell. If the receiver is of text type, the text is resized to fit within *aRect* (as much as *aRect* is within the bounds of the cell).

Availability

Available in Mac OS X v10.0 and later.

See Also

- drawingRectForBounds: (page 28)

Declared In NSCell.h

compare:

Compares the string values of the receiver another cell, disregarding case.

- (NSComparisonResult)compare:(id)otherCell

Parameters

otherCell

The cell to compare against the receiver. This parameter must be of type NSCell; if it is not, this method raises NSBadComparisonException.

This value must not be nil. If the value is nil, the behavior is undefined and may change in future versions of Mac OS X.

Return Value

NSOrderedAscending if the string value of the receiver precedes the string value of *otherCell* in lexical ordering, NSOrderedSame if the string values are equivalent in lexical value, and NSOrderedDescending string value of the receiver follows the string value of *otherCell* in lexical ordering.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

continueTracking:at:inView:

Returns a Boolean value that indicates whether mouse tracking should continue in the receiving cell.

- (BOOL)continueTracking:(NSPoint)lastPoint at:(NSPoint)currentPoint inView:(NSView *)controlView

Parameters

lastPoint

Contains either the initial location of the cursor when tracking began or the previous current point.

currentPoint

The current location of the cursor.

controlView

The NSControl object managing the receiver.

Return Value

YES if mouse tracking should continue, otherwise NO.

Discussion

This method is invoked in trackMouse:inRect:ofView:untilMouseUp: (page 82). The default implementation returns YES if the cell is set to continuously send action messages to its target when the mouse button is down or the mouse is being dragged. Subclasses can override this method to provide more sophisticated tracking behavior.

Availability

Available in Mac OS X v10.0 and later.

See Also

- startTrackingAt:inView: (page 75)
- stopTracking:at:inView:mouseIsUp: (page 76)

Declared In NSCell.h

controlSize

Returns the size of the receiver.

- (NSControlSize)controlSize

Return Value

A value that specifies the size of the receiver (for possible values, see "Control Sizes" (page 94)).

Availability

Available in Mac OS X v10.0 and later.

See Also

- setControlSize: (page 56)

Declared In

NSCell.h

controlTint

Returns the receiver's control tint.

- (NSControlTint)controlTint

Return Value

An NSControlTint (page 93) value that specifies the tint of the receiver (see "Control Tints" (page 93) for possible values).

Availability

Available in Mac OS X v10.0 and later.

See Also

- setControlTint: (page 57)

Declared In

NSCell.h

controlView

Returns the receiver's control.

- (NSView *)controlView

Return Value

The view (normally an NSControl object) associated with this cell. The default implementation returns nil.

Availability

Available in Mac OS X v10.0 and later.

See Also

- drawWithFrame:inView: (page 30)
- setControlView: (page 57)

Declared In

NSCell.h

doubleValue

Returns the value of the receiver's cell as a double-precision floating-point number.

- (double)doubleValue

Return Value

The value of the cell interpreted as a double-precision floating-point number. If the receiver is not a text-type cell or the cell value is not scannable, returns 0.

Availability Available in Mac OS X v10.0 and later.

See Also
- setDoubleValue: (page 58)

Declared In

NSCell.h

drawingRectForBounds:

Returns the rectangle within which the receiver draws itself

- (NSRect)drawingRectForBounds:(NSRect)theRect

Parameters

theRect

The bounding rectangle of the receiver.

Return Value

The rectangle in which the receiver draws itself. This rectangle is slightly inset from the one in theRect.

Availability Available in Mac OS X v10.0 and later.

See Also - calcSize (NSControl)

Declared In

NSCell.h

drawInteriorWithFrame:inView:

Draws the interior portion of the receiver, which includes the image or text portion but does not include the border.

- (void)drawInteriorWithFrame:(NSRect)cellFrame inView:(NSView *)controlView

Parameters

cellFrame

The bounding rectangle of the receiver, or a portion of the bounding rectangle.

controlView

The control that manages the cell.

Discussion

Text-type NSCell objects display their contents in a rectangle slightly inset from *cellFrame* using a global NSText object. Image-type NSCell objects display their contents centered within *cellFrame*. If the proper attributes are set, this method also displays the dotted-line rectangle to indicate if the control is the first responder and highlights the cell. This method is invoked from the drawCellInside: method of NSControl to visually update what the cell displays when its contents change. The drawing done by the NSCell implementation is minimal and becomes more complex in objects such as NSButtonCell and NSSliderCell.

This method draws the cell in the currently focused view, which can be different from the *controlView* passed in. Taking advantage of this is not recommended.

Subclasses often override this method to provide more sophisticated drawing of cell contents. Because drawWithFrame:inView: (page 30) invokes drawInteriorWithFrame:inView: after it draws the cell's border, do not invoke drawWithFrame:inView: (page 30) in your override implementation.

Availability

Available in Mac OS X v10.0 and later.

See Also

- isHighlighted (page 42)
- setShowsFirstResponder: (page 69)

Declared In

NSCell.h

drawWithExpansionFrame:inView:

Instructs the receiver to draw in an expansion frame.

- (void)drawWithExpansionFrame:(NSRect)cellFrame inView:(NSView *)view

Parameters

```
cellFrame
```

The frame in which to draw.

view

The view in which to draw. This view may be different from the original view that the cell appeared in.

Discussion

This method allows the cell to perform custom expansion tool tip drawing. By default, NSCell simply calls drawWithFrame:inView: (page 30).

Availability

Available in Mac OS X v10.5 and later.

See Also

```
- expansionFrameWithFrame:inView: (page 31)
```

Declared In NSCell.h

drawWithFrame:inView:

Draws the receiver's border and then draws the interior of the cell.

- (void)drawWithFrame:(NSRect)cellFrame inView:(NSView *)controlView

Parameters

cellFrame

The bounding rectangle of the receiver.

controlView

The control that manages the cell.

Discussion

This method draws the cell in the currently focused view, which can be different from the *controlView* passed in. Taking advantage of this behavior is not recommended, however.

Availability

Available in Mac OS X v10.0 and later.

See Also

- drawInteriorWithFrame:inView: (page 28)

Declared In

NSCell.h

editWithFrame:inView:editor:delegate:event:

Begins editing of the receiver's text using the specified field editor.

Parameters

```
aRect
```

The bounding rectangle of the cell.

```
controlView
```

The control that manages the cell.

text0bj

The field editor to use for editing the cell.

anObject

The object to use as a delegate for the field editor (text0bj parameter). This delegate object receives various NSText delegation and notification methods during the course of editing the cell's contents.

theEvent

The NSLeftMouseDown event that initiated the editing behavior.

Discussion

If the receiver isn't a text-type NSCell object, no editing is performed. Otherwise, the field editor (*text0bj*) is sized to *aRect* and its superview is set to *controlView*, so it exactly covers the receiver. The field editor is then activated and editing begins. It's the responsibility of the delegate to end editing when responding to textShouldEndEditing:. Upon ending the editing session, the delegate should remove any data from the field editor.

Availability

Available in Mac OS X v10.0 and later.

See Also

```
- endEditing: (page 31)
```

- selectWithFrame:inView:editor:delegate:start:length: (page 49)

Declared In

NSCell.h

endEditing:

Ends the editing of text in the receiver using the specified field editor.

```
- (void)endEditing:(NSText *)textObj
```

Parameters

text0bj

The field editor currently handling the editing of the cell's content.

Discussion

Ends any editing of text that began with a call to editWithFrame:inView:editor:delegate:event: (page 30) or selectWithFrame:inView:editor:delegate:start:length: (page 49).

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

expansionFrameWithFrame:inView:

Returns the expansion cell frame for the receiver.

- (NSRect)expansionFrameWithFrame:(NSRect)cellFrame inView:(NSView *)view

Parameters

```
cellFrame
```

The frame for the receiver.

view

The view in which the receiver will be drawn.

Return Value

The expansion cell frame for the receiver. If the frame is not too small, return an empty rect (NSZeroRect), and no expansion tool tip view will be shown.

Discussion

This method allows the cell to return an expansion cell frame if *cellFrame* is too small for the entire contents in the view. When the mouse is hovered over the cell in certain controls, the full cell contents are shown in a special floating tool tip view. By default, NSCell returns NSZeroRect, while some subclasses (such as NSTextFieldCell) will return the proper frame when required.

Availability

Available in Mac OS X v10.5 and later.

See Also

- drawWithExpansionFrame:inView: (page 29)

Declared In

NSCell.h

floatValue

Returns the value of the receiver's cell as a single-precision floating-point number.

- (float)floatValue

Return Value

The value of the cell interpreted as a single-precision floating-point number. If the receiver is not a text-type cell or the cell value is not scannable, returns 0.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

focusRingType

Returns the type of focus ring currently set for the receiver.

- (NSFocusRingType) focusRingType

Return Value

The type of focus ring currently set for the receiver (one of the values listed in NSFocusRingType).

Discussion

You can disable a view's focus ring drawing by overriding this method so it always returns NSFocusRingTypeNone, or by calling setFocusRingType: (page 61) with NSFocusRingTypeNone. You should only disable a view from drawing its focus ring if you want to draw your own focus ring, or if there isn't sufficient space to display a focus ring in the default location.

Availability

Available in Mac OS X v10.3 and later.

See Also

setFocusRingType: (page 61)defaultFocusRingType (page 19)

32 Instance Methods 2009-02-04 | © 2009 Apple Inc. All Rights Reserved. Declared In NSCell.h

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font

Returns the font used to display text in the receiver

- (NSFont *)font

Return Value The receiver's current font, or nil if the receiver is not a text-type cell.

Availability Available in Mac OS X v10.0 and later.

See Also
- setFont: (page 61)

Related Sample Code QTKitMovieShuffler

Declared In NSCell.h

formatter

Returns the receiver's formatter object.

- (id)formatter

Return Value

An object of type NSFormatter used to format the receiver's content.

Discussion

The returned object handles translation of the receiver's contents between its onscreen representation and its object value.

Availability

Available in Mac OS X v10.0 and later.

See Also
- setFormatter: (page 62)

Declared In

NSCell.h

getPeriodicDelay:interval:

Returns the initial delay and repeat values for continuous sending of action messages to target objects.

- (void)getPeriodicDelay:(float *)delay interval:(float *)interval

Parameters

delay

On input, a pointer to a floating-point variable. On output, the variable contains the current delay (measured in seconds) before messages are sent. This parameter must not be NULL.

interval

On input, a pointer to a floating point variable. On output, the variable contains the interval (measured in seconds) at which messages are sent. This parameter must not be NULL.

Discussion

The default implementation returns a delay of 0.2 and an interval of 0.025 seconds. Subclasses can override this method to supply their own delay and interval values.

Availability

Available in Mac OS X v10.0 and later.

See Also

- isContinuous (page 40)
- setContinuous: (page 56)

Declared In

NSCell.h

hasValidObjectValue

Returns a Boolean value that indicates whether the receiver has a valid object value.

- (BOOL)hasValidObjectValue

Return Value

YES if the cell has a valid object value, otherwise NO.

Discussion

A valid object value is one that the receiver's formatter can "understand." Objects are always assumed to be valid unless they are rejected by the formatter. Invalid objects can still be accepted by the delegate of the receiver's NSControl object (using the control:didFailToFormatString:errorDescription: delegate method).

Availability

Available in Mac OS X v10.0 and later.

See Also

- objectValue (page 47)
- setObjectValue: (page 66)

Declared In

NSCell.h

highlight:withFrame:inView:

Redraws the receiver with the specified highlight setting.

- (void)highlight:(BOOL)flag withFrame:(NSRect)cellFrame inView:(NSView *)controlView

Parameters

flag

If YES, the cell is redrawn with a highlight; otherwise, if NO, the highlight is removed.

cellFrame

The bounding rectangle of the receiver.

controlView

The control that manages the cell.

Discussion

Note that the NSCell highlighting does not appear when highlighted cells are printed (although instances of NSTextFieldCell, NSButtonCell, and others can print themselves highlighted). Generally, you cannot depend on highlighting being printed because implementations of this method may choose (or not choose) to use transparency.

Availability

Available in Mac OS X v10.0 and later.

See Also

- drawWithFrame:inView: (page 30)

- isHighlighted (page 42)

Declared In

NSCell.h

highlightColorWithFrame:inView:

Returns the color the receiver uses when drawing the selection highlight.

- (NSColor *) highlightColorWithFrame:(NSRect) cellFrame inView:(NSView *) controlView

Parameters

cellFrame

The bounding rectangle of the receiver.

```
controlView
```

The control that manages the cell.

Return Value

The color the receiver uses when drawing the selection highlight.

Discussion

You should not assume that a cell would necessarily want to draw itself with the value returned from selectedControlColor. A cell may wish to draw with different a selection highlight color depending on such things as the key state of its *controlView*.

Availability

Available in Mac OS X v10.1 and later.

Declared In

NSCell.h

hitTestForEvent:inRect:ofView:

Returns hit testing information for the receiver.

- (NSUInteger)hitTestForEvent:(NSEvent *)event inRect:(NSRect)cellFrame
ofView:(NSView *)controlView

Parameters

event

The current event.

cellFrame

The cell's frame.

controlView

The control object in which the cell is located.

Return Value

A constant that specifies the type of area in which the event occurred—see "Hit Testing" (page 95) for values.

Discussion

You can use a bit-wise mask to look for a specific value when calling this method—see "Hit Testing" (page 95) for values.

Generally, this method should be overridden by custom NSCell subclasses to return the correct result. Currently, it is called by some multi-cell views, such as NSTableView.

By default, NSCell looks at the cell type and does the following:

- NSImageCellType: If the image exists and the event point is in the image returns NSCellHitContentArea, otherwise NSCellHitNone.
- NSTextCellType (also applies to NSTextFieldCell):

If there is text: If the event point hits in the text, return NSCellHitContentArea. Additionally, if the cell is enabled return NSCellHitContentArea | NSCellHitEditableTextArea.

If there is not text: return NSCellHitNone.

NSNullCellType (this is the default that applies to non text or image cells who don't override hitTestForEvent:inRect:ofView:):

Return NSCellHitContentArea by default;

If the cell not disabled, and it would track, return NSCellHitContentArea | NSCellHitTrackableArea.

Availability

Available in Mac OS X v10.5 and later.

Declared In

NSCell.h

image

Returns the image displayed by the receiver (if any).
- (NSImage *)image

Return Value

The image displayed by the receiver, or nil if the receiver is not an image-type cell.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setImage: (page 62)

Declared In

NSCell.h

imageRectForBounds:

Returns the rectangle in which the receiver draws its image.

- (NSRect)imageRectForBounds:(NSRect)theRect

Parameters

theRect

The bounding rectangle of the receiver.

Return Value

The rectangle in which the receiver draws its image. This rectangle is slightly offset from the one in theRect.

Availability

Available in Mac OS X v10.0 and later.

See Also

- cellSizeForBounds: (page 25)
- drawingRectForBounds: (page 28)

Declared In

NSCell.h

importsGraphics

Returns a Boolean value that indicates whether the text of the receiver can contain imported graphics.

```
- (BOOL) imports Graphics
```

Return Value

YES if the receiver's text is in the RTFD format and supports imported graphics, otherwise NO.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setImportsGraphics: (page 63)

Declared In NSCell.h

initImageCell:

Returns an NSCell object initialized with the specified image and set to have the cell's default menu.

```
- (id)initImageCell:(NSImage *)anImage
```

Parameters

anImage

The image to use for the cell. If this parameter is nil, no image is set.

Return Value An initialized NSCell object, or nil if the cell could not be initialized.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

initTextCell:

Returns an NSCell object initialized with the specified string and set to have the cell's default menu.

- (id)initTextCell:(NSString *)aString

Parameters

aString

The initial string to use for the cell.

Return Value

An initialized NSCell object, or nil if the cell could not be initialized.

Discussion

If no field editor (a shared NSText object) has been created for all NSCell objects, one is created.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

integerValue

Returns the receiver's value as an NSInteger.

- (NSInteger)integerValue

Return Value

The value of the cell interpreted as an NSInteger. If the receiver is not a text-type cell or the cell value is not scannable, returns 0.

Availability

Available in Mac OS X v10.5 and later.

See Also

- setIntegerValue: (page 63)
- intValue (page 39)

Declared In

NSCell.h

interiorBackgroundStyle

Returns the interior background style for the receiver.

- (NSBackgroundStyle)interiorBackgroundStyle

Return Value

Returns the interior background style for the receiver.

Discussion

The interior background style describes the surface drawn onto in drawInteriorWithFrame:inView: (page 28). This is often the same as the backgroundStyle (page 23), but a button that draws a bezel would have a different interiorBackgroundStyle.

This is both an override point and a useful method to call. In a custom button with a custom bezel you can override this method to describe that surface. A cell that has custom interior drawing might query this method to help pick an image that looks good on the cell. Calling this method gives you some independence from changes in framework art style.

Availability

Available in Mac OS X v10.5 and later.

Declared In

NSCell.h

intValue

Returns the receiver's value as an integer.

- (int)intValue

Return Value

The value of the cell interpreted as an integer. If the receiver is not a text-type cell or the cell value is not scannable, returns 0.

Discussion

On Mac OS X v10.5 and later, you should use integerValue (page 38) instead.

Availability

Available in Mac OS X v10.0 and later.

See Also

- integerValue (page 38)
- setIntValue: (page 64)

Related Sample Code VertexPerformanceTest

Declared In

NSCell.h

isBezeled

Returns a Boolean value that indicates whether the receiver has a bezeled border.

- (BOOL)isBezeled

Return Value

YES if the receiver has a bezeled border, otherwise NO.

Availability

Available in Mac OS X v10.0 and later.

See Also
- setBezeled: (page 55)

Declared In

NSCell.h

isBordered

Returns a Boolean value that indicates whether the receiver has a plain border.

```
- (BOOL)isBordered
```

Return Value

YES if the receiver has a plain border, otherwise NO.

Availability

Available in Mac OS X v10.0 and later.

See Also - setBordered: (page 55)

Declared In NSCell.h

isContinuous

Returns a Boolean value that indicates whether the receiver's cell sends its action message continuously to its target during mouse tracking.

- (BOOL)isContinuous

Return Value

YES if the action message should be sent continuously, otherwise NO.

NSCell Class Reference

Availability Available in Mac OS X v10.0 and later.

See Also - setContinuous: (page 56)

Related Sample Code AnimatedSlider

Declared In NSCell.h

isEditable

Returns a Boolean value that indicates whether the receiver is editable.

```
- (BOOL)isEditable
```

Return Value

YES if the receiver is editable, otherwise NO.

Availability Available in Mac OS X v10.0 and later.

See Also
- setEditable: (page 58)

Declared In NSCell.h

is Enabled

Returns a Boolean value that indicates whether the receiver is enabled or disabled.

- (BOOL)isEnabled

Return Value YES if the receiver is enabled, otherwise NO.

Availability Available in Mac OS X v10.0 and later.

See Also
- setEnabled: (page 59)

Declared In NSCell.h

isEntryAcceptable:

Returns whether a string representing a numeric or date value is formatted in a suitable way for the cell's entry type.

- (BOOL) is Entry Acceptable: (NSString *) aString

Parameters

aString

A string containing the numeric or date value.

Return Value

YES if *aString* is formatted appropriately for the receiver, otherwise NO.

Discussion

This method is being deprecated in favor of a new class of formatter objects. For more information, see NSFormatter. This documentation is provided only for developers who need to modify older applications

Availability

Available in Mac OS X v10.0 and later.

See Also

- entryType (page 99)
- setEntryType: (page 99)

Declared In

NSCell.h

isHighlighted

Returns a Boolean value that indicates whether the receiver is highlighted.

```
- (BOOL)isHighlighted
```

Return Value

YES if the receiver has a highlight, otherwise NO.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

isOpaque

Returns a Boolean value that indicates whether the receiver is opaque (nontransparent).

```
- (BOOL) is Opaque
```

Return Value

YES if the receiver is opaque, otherwise N0 to indicate the receiver might have some transparency.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

isScrollable

Returns a Boolean value that indicates whether the receiver scrolls excess text past the cell's bounds.

- (BOOL)isScrollable

Return Value

YES if excess text scrolls past the cell's bounds, otherwise N0 (text wrapping is enabled).

Availability Available in Mac OS X v10.0 and later.

See Also
- setScrollable: (page 67)

Declared In NSCell.h

isSelectable

Returns a Boolean value that indicates whether the text of the receiver can be selected.

- (BOOL)isSelectable

Return Value

YES if the receiver's text can be selected, otherwise NO.

Availability Available in Mac OS X v10.0 and later.

See Also
- setSelectable: (page 68)

Declared In NSCell.h

keyEquivalent

Returns the key equivalent to clicking the cell.

- (NSString *)keyEquivalent

Return Value An empty string object.

Discussion

Subclasses can override this method to return a string with a valid character for the key equivalent.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

lineBreakMode

Returns the line break mode currently used when drawing text.

- (NSLineBreakMode)lineBreakMode

Return Value

The line break mode the receiver currently uses when drawing text (one of the following constants: NSLineBreakByWordWrapping, NSLineBreakByCharWrapping, NSLineBreakByClipping, NSLineBreakByTruncatingHead, NSLineBreakByTruncatingTail, or NSLineBreakByTruncatingMiddle).

Availability

Available in Mac OS X v10.4 and later.

See Also

- setLineBreakMode: (page 64)
- truncatesLastVisibleLine (page 83)

Declared In

NSCell.h

menu

Returns the receiver's contextual menu.

- (NSMenu *)menu

Return Value

The receiver's contextual menu, or nil if no menu is assigned.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setMenu: (page 65)

Related Sample Code Clock Control

Declared In

NSCell.h

menuForEvent:inRect:ofView:

Returns the menu associated with the receiver and related to the specified event and frame.

- (NSMenu *)menuForEvent:(NSEvent *)anEvent inRect:(NSRect)cellFrame ofView:(NSView *)aView

Parameters

anEvent

The event used to find the menu.

cellFrame

The cell's rectangle. This rectangle indicates the region containing the cursor.

aView

The view that manages the receiver. This is usually the control object that owns the cell.

Return Value

The menu associated with the cell and event parameters, or nil if no menu is set.

Discussion

This method is usually invoked by the NSControl object (*aView*) managing the receiver. The default implementation simply invokes menu (page 44) and returns nil if no menu has been set. Subclasses can override to customize the returned menu according to the event received and the area in which the mouse event occurs.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

mnemonic

Returns the character in the receiver's title that appears underlined for use as a mnemonic.

- (NSString *)mnemonic

Return Value

A string containing the mnemonic character, or an empty string if no mnemonic character is set.

Discussion Mnemonics are not supported in Mac OS X

Availability

Available in Mac OS X v10.0 and later.

See Also

- setTitleWithMnemonic: (page 72)

Declared In NSCell.h

mnemonicLocation

Returns the position of the underlined mnemonic character in the receiver's title.

- (NSUInteger)mnemonicLocation

Return Value

A zero-based index into the receiver's title string indicating the position of the character. If there is no mnemonic character, this method returns NSNotFound.

Discussion

Mnemonics are not supported in Mac OS X.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setMnemonicLocation: (page 65)

Declared In

NSCell.h

mouseDownFlags

Returns the modifier flags for the last (left) mouse-down event.

- (NSInteger)mouseDownFlags

Return Value

The modifier flags, or 0 if tracking has not yet occurred or no modifier keys accompanied the mouse-down event.

Availability Available in Mac OS X v10.0 and later.

See Also - modifierFlags (NSEvent)

Declared In NSCell.h

nextState

Returns the receiver's next state.

- (NSInteger)nextState

Return Value

The receiver's next state (for possible values, see "Cell States" (page 91)).

Discussion

If the receiver has three states, it cycles through them in this order: on, off, mixed, on, and so forth. If the receiver has two states, it toggles between them.

Availability

Available in Mac OS X v10.0 and later.

See Also

- allowsMixedState (page 21)
- setAllowsMixedState: (page 52)
- setNextState (page 66)

Declared In

NSCell.h

objectValue

Returns the receiver's value as an Objective-C object

- (id)objectValue

Return Value

The receiver's object value, or nil if a valid object has not been associated with the receiver.

Discussion

To be valid object value, the receiver must have a formatter capable of converting the object to and from its textual representation.

Availability

Available in Mac OS X v10.0 and later.

Related Sample Code Clock Control

Declared In NSCell.h

performClick:

Simulates a single mouse click on the receiver.

```
- (void)performClick:(id)sender
```

Parameters

sender

The object to use as the sender of the event (if the receiver's control view is not valid). This object must be a subclass of NSView.

Discussion

This method performs the receiver's action on its target. The receiver must be enabled to perform the action. If the receiver's control view is valid, that view is used as the sender; otherwise, the value in *sender* is used.

The receiver of this message must be a cell of type NSActionCell. This method raises an exception if the action message cannot be successfully sent.

Availability

Available in Mac OS X v10.0 and later.

See Also - controlView (page 27)

Declared In NSCell.h

preparedImage

Returns the prepared image for the receiver.

```
- (NSImage *)preparedImage
```

Return Value

The prepared image for the receiver.

Discussion

By default, this method returns a processed version of the cell's image or alternate image that takes into account interiorBackgroundStyle (page 39) and state. For example, a button cell might display a darker version of the cell's image when pressed. You can override this method to return an image based on any arbitrary parameters.

refusesFirstResponder

Returns a Boolean value that indicates whether the receiver should not become the first responder.

- (BOOL)refusesFirstResponder

Return Value

YES if the receiver should never become the first responder, otherwise N0 if the receiver can become the first responder.

Discussion

To find out whether the receiver can become first responder at this time, use the method acceptsFirstResponder (page 20).

Availability Available in Mac OS X v10.0 and later.

See Also

- setRefusesFirstResponder: (page 66)

Declared In NSCell.h

representedObject

Returns the object the receiver represents.

- (id)representedObject

Return Value

The object represented by the receiver.

Discussion

Represented objects let you link a cell to an appropriate object. For example, you could have a pop-up list of color names, and the represented objects could be the appropriate NSColor objects.

Special Considerations

Note that if you copy an NSCell instance, the represented object in the copy is set to nil.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setRepresentedObject: (page 67)

Declared In

NSCell.h

resetCursorRect:inView:

Sets the receiver to show the I-beam cursor while it tracks the mouse.

- (void)resetCursorRect:(NSRect)cellFrame inView:(NSView *)controlView

Parameters

cellFrame

The rectangle in which to display the I-beam cursor.

controlView

The control that manages the cell.

Discussion

The receiver must be an enabled and selectable (or editable) text-type cell.

This method is invoked by resetCursorRects and in general you do not need to call this method unless you have a custom NSView that uses a cell.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

selectWithFrame:inView:editor:delegate:start:length:

Selects the specified text range in the cell's field editor.

```
- (void)selectWithFrame:(NSRect)aRect inView:(NSView *)controlView editor:(NSText
     *)textObj delegate:(id)anObject start:(NSInteger)selStart
    length:(NSInteger)selLength
```

Parameters

aRect

The bounding rectangle of the cell.

controlView

The control that manages the cell.

text0bj

The field editor to use for editing the cell.

anObject

The object to use as a delegate for the field editor (text0bj parameter). This delegate object receives various NSText delegation and notification methods during the course of editing the cell's contents.

selStart

The start of the text selection.

selLength

The length of the text range.

This method is similar to editWithFrame:inView:editor:delegate:event: (page 30), except that it can be invoked in any situation, not only on a mouse-down event. This method returns without doing anything if controlView, text0b, j, or the receiver is nil, or if the receiver has no font set for it.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

sendActionOn:

Sets the conditions on which the receiver sends action messages to its target.

```
- (NSInteger)sendActionOn:(NSInteger)mask
```

Parameters

mask

A bit mask containing the conditions for sending the action. The only conditions that are actually checked are associated with the NSLeftMouseDownMask, NSLeftMouseUpMask, NSLeftMouseDraggedMask, and NSPeriodicMask bits.

Return Value

A bit mask containing the previous settings. This bit mask uses the same values as specified in the mask parameter.

Discussion

You use this method during mouse tracking when the mouse button changes state, the mouse moves, or if the cell is marked to send its action continuously while tracking. Because of this, the only bits checked in mask are NSLeftMouseDownMask, NSLeftMouseUpMask, NSLeftMouseDraggedMask, and NSPeriodicMask, which are declared in the NSEvent class reference.

You can use the setContinuous: (page 56) method to turn on the flag corresponding to NSPeriodicMask or NSLeftMouseDraggedMask, whichever is appropriate to the given subclass of NSCell.

Availability

Available in Mac OS X v10.0 and later.

See Also action (page 20)

Declared In NSCell.h

sendsActionOnEndEditing

Returns a Boolean value that indicates whether the receiver's NSControl object sends its action message whenever the user finishes editing the cell's text.

- (BOOL)sendsActionOnEndEditing

Return Value

YES if the receiver's control sends its action message when editing is complete, otherwise NO.

Discussion

If this method returns YES, the receiver's NSControl object sends its action message when the user does one of the following:

- Presses the Return key
- Presses the Tab key to move out of the field
- Clicks another text field

If it returns NO, the cell's NSControl object sends its action message only when the user presses the Return key.

Availability

Available in Mac OS X v10.0 and later.

See Also

```
- setSendsActionOnEndEditing: (page 68)
```

Declared In

NSCell.h

setAction:

Sets the cell's action method to the specified selector.

```
- (void)setAction:(SEL)aSelector
```

Parameters

aSelector

The new action-message selector to associate with the receiver's cell. Specify NULL to prevent action messages from being sent to the receiver's target.

Discussion

The NSCell implementation of this method raises NSInternalInconsistencyException. Subclasses (such as NSActionCell) override this method to set the action method as part of the target/action implementation.

Availability

Available in Mac OS X v10.0 and later.

See Also

- action (page 20)
- setTarget: (page 71)
- target (page 81)

Declared In

NSCell.h

setAlignment:

Sets the alignment of text in the receiver.

```
- (void)setAlignment:(NSTextAlignment)mode
```

Parameters

mode

```
This value can be one of the following constants: NSLeftTextAlignment, NSRightTextAlignment,NSCenterTextAlignment,NSJustifiedTextAlignment, orNSNaturalTextAlignment.
```

Availability Available in Mac OS X v10.0 and later.

See Also

```
- alignment (page 21)
- setWraps: (page 74)
```

Declared In

NSCell.h

setAllowsEditingTextAttributes:

Sets whether the receiver allows the user to edit textual attributes of its contents.

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

Parameters

flag

If YES, the user can modify the font and other textual attributes of the cell's text. If NO, the user cannot edit the text or import graphics, which effectively means the cell cannot support RTFD text.

Availability

Available in Mac OS X v10.0 and later.

See Also

```
allowsEditingTextAttributes (page 21)setImportsGraphics: (page 63)
```

Declared In

NSCell.h

setAllowsMixedState:

Sets whether the receiver supports three states or just two.

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

Parameters

flag

If YES, the receiver supports three states (on, off, and mixed); otherwise, if NO, the receiver supports only two states (on and off).

NSCell Class Reference

Availability

Available in Mac OS X v10.0 and later.

See Also

- allowsMixedState (page 21)
- nextState (page 46)
- setNextState (page 66)

Declared In

NSCell.h

setAllowsUndo:

Sets whether the receiver assumes responsibility for undo operations within the cell.

```
- (void)setAllowsUndo:(BOOL)allowsUndo
```

Parameters

allowsUndo

If YES, the receiver handles undo operations; otherwise, if NO, the application's custom undo manager handles undo operations.

Discussion

Subclasses invoke this method to indicate their preference for handling undo operations; otherwise, you should not need to call this method directly.

Availability

Available in Mac OS X v10.4 and later.

See Also

- allowsUndo (page 22)

Declared In

NSCell.h

setAttributedStringValue:

Sets the value of the receiver's cell using an attributed string.

- (void)setAttributedStringValue:(NSAttributedString *)attribStr

Parameters

attribStr

The value of the cell interpreted as an attributed string.

Discussion

If a formatter is set for the receiver, but the formatter does not understand the attributed string, it marks *attribStr* as an invalid object. If the receiver is not a text-type cell, it is converted to one before the value is set.

For Mac OS X v10.3 and later: If you use a class that responds to the selector attributedStringValue (page 22) for the object value of a cell, then the cell uses that method to fetch the string to draw rather than using stringValue (page 77).

The following example sets the text in a cell to 14 points, red, in the system font.

Availability

Available in Mac OS X v10.0 and later.

```
See Also
- attributedStringValue (page 22)
```

Declared In

NSCell.h

setBackgroundStyle:

Sets the background style for the receiver.

```
- (void)setBackgroundStyle:(NSBackgroundStyle)style
```

Parameters

style

The background style for the receiver.

Availability Available in Mac OS X v10.5 and later.

Declared In

NSCell.h

setBaseWritingDirection:

Sets the initial writing direction used to determine the actual writing direction for text .

- (void)setBaseWritingDirection:(NSWritingDirection)writingDirection

Parameters

writingDirection

One of the following values: NSWritingDirectionNatural, NSWritingDirectionLeftToRight, or NSWritingDirectionRightToLeft.

Discussion

If you know the base writing direction of the text you are rendering, you can use this method to specify that direction to the text system.

Availability

Available in Mac OS X v10.4 and later.

See Also

- baseWritingDirection (page 23)

Declared In NSCell.h

setBezeled:

Sets whether the receiver draws itself with a bezeled border.

- (void)setBezeled:(BOOL)flag

Parameters

flag

If YES, the receiver uses a bezeled border.

Discussion

The setBezeled: and setBordered: (page 55) methods are mutually exclusive (that is, a border can be only plain or bezeled). Invoking this method automatically removes any border that had already been set, regardless of the value in the flag parameter.

Availability

Available in Mac OS X v10.0 and later.

See Also

- isBezeled (page 40)

Declared In

NSCell.h

setBordered:

Sets whether the receiver draws itself outlined with a plain border.

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

Parameters

flag

If YES, the receiver uses a plain border.

Discussion

The setBezeled: (page 55) and setBordered: methods are mutually exclusive (that is, a border can be only plain or bezeled). Invoking this method automatically removes any bezel that had already been set, regardless of the value in the flag parameter.

Availability

Available in Mac OS X v10.0 and later.

See Also - isBordered (page 40)

Declared In

NSCell.h

setCellAttribute:to:

Sets the value for the specified cell attribute.

- (void)setCellAttribute:(NSCellAttribute)aParameter to:(NSInteger)value

Parameters

aParameter

The cell attribute whose value you want to set. Attributes include the receiver's current state and whether it is disabled, editable, or highlighted.

value

The new value for the attribute.

Availability

Available in Mac OS X v10.0 and later.

See Also

- cellAttribute: (page 24)

Declared In

NSCell.h

setContinuous:

Sets whether the receiver's cell sends its action message continuously to its target during mouse tracking.

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

Parameters

flag

If YES, the action message should be sent continuously.

Discussion

In practice, the continuous setting of action messages has meaning only for NSActionCell and its subclasses, which implement the target/action mechanism. Some NSControl subclasses, notably NSMatrix, send a default action to a default target when a cell doesn't provide a target or action.

Availability

Available in Mac OS X v10.0 and later.

See Also

- isContinuous (page 40)
- sendActionOn: (page 50)

Declared In

NSCell.h

setControlSize:

Sets the size of the receiver.

```
- (void)setControlSize:(NSControlSize)size
```

Parameters

size

A value that specifies the size of the receiver (for possible values, see "Control Sizes" (page 94)).

Discussion

Changing the cell's control size does not change the font of the cell. Use the

systemFontSizeForControlSize: class method of NSFont to obtain the system font based on the new control size and set it.

Availability

Available in Mac OS X v10.0 and later.

See Also - controlSize (page 27)

Related Sample Code

QTAudioExtractionPanel Quartz Composer WWDC 2005 TextEdit TextEditPlus

Declared In

NSCell.h

setControlTint:

Sets the receiver's control tint.

```
- (void)setControlTint:(NSControlTint)controlTint
```

Parameters

controlTint

An NSControlTint (page 93) value that specifies the tint of the receiver (see "Control Tints" (page 93) for possible values).

Availability

Available in Mac OS X v10.0 and later.

See Also

```
- controlTint (page 27)
```

Declared In

NSCell.h

setControlView:

Sets the receiver's control view.

- (void)setControlView:(NSView *)view

Parameters

view

The view (normally an NSControl object) to associate with the cell.

The control view represents the control currently being rendered by the cell.

Availability

Available in Mac OS X v10.4 and later.

See Also

- controlView (page 27)

Declared In

NSCell.h

setDoubleValue:

Sets the value of the receiver's cell using a double-precision floating-point number.

```
- (void)setDoubleValue:(double)aDouble
```

Parameters

aDouble

The value of the cell interpreted as a double-precision floating-point number.

Discussion

In its implementation, this method invokes the setObjectValue: (page 66) method to set the actual value. This method does nothing if the receiver is not a text-type cell.

Availability

Available in Mac OS X v10.0 and later.

See Also

- doubleValue (page 28)

Declared In

NSCell.h

setEditable:

Sets whether the user can edit the receiver's text.

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

Parameters

flag

If YES, the user is allowed to edit the receiver's text. If this value is YES, the text is also made selectable. If it is N0, the selectable attribute is restored to the value it was before the cell was last made editable.

Availability

Available in Mac OS X v10.0 and later.

See Also

isEditable (page 41)setSelectable: (page 68)

Related Sample Code

EnhancedDataBurn ImageBackground QTAudioExtractionPanel QTKitMovieShuffler

Declared In NSCell.h

setEnabled:

Sets whether the receiver is enabled or disabled.

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

Parameters

flag

If YES the receiver is enabled; otherwise, if N0, the receiver is disabled.

Discussion

The text of disabled cells is changed to gray. If a cell is disabled, it cannot be highlighted, does not support mouse tracking (and thus cannot participate in target/action functionality), and cannot be edited. However, you can still alter many attributes of a disabled cell programmatically. (The setState: (page 69) method, for instance, still works.)

Availability

Available in Mac OS X v10.0 and later.

See Also

- isEnabled (page 41)

Related Sample Code

QTKitMovieShuffler TextLinks VertexPerformanceTest

Declared In

NSCell.h

setFloatingPointFormat:left:right:

Sets the autoranging and floating point number format of the receiver's cell.

```
- (void)setFloatingPointFormat:(BOOL)autoRange left:(NSUInteger)leftDigits
right:(NSUInteger)rightDigits
```

Parameters

```
autoRange
```

If YES, autoranging is enabled, otherwise it is disabled.

leftDigits

The number of digits to display to the left of the decimal point.

rightDigits

The number of digits to display to the right of the decimal point.

Discussion

Sets whether floating-point numbers are autoranged in the receiver and sets the sizes of the fields to the left and right of the decimal point. If *autoRange* is N0, *leftDigits* specifies the maximum number of digits to the left of the decimal point, and *rightDigits* specifies the number of digits to the right (the fractional digit places will be padded with zeros to fill this width). However, if a number is too large to fit its integer part in *leftDigits* digits, as many places as are needed on the left are effectively removed from *rightDigits* when the number is displayed.

If *autoRange* is YES, *1eftDigits* and *rightDigits* are simply added to form a maximum total field width for the receiver (plus 1 for the decimal point). The fractional part will be padded with zeros on the right to fill this width, or truncated as much as possible (up to removing the decimal point and displaying the number as an integer). The integer portion of a number is never truncated—that is, it is displayed in full no matter what the field width limit is.

The following example sets a cell used to display dollar amounts up to 99,999.99:

```
[[currencyDollarsField cell] setEntryType:NSFloatType];
[[currencyDollarsField cell] setFloatingPointFormat:N0 left:5 right:2];
```

Note: This method is being deprecated in favor of a new class of formatter objects. For more information, see NSFormatter. This documentation is provided only for developers who need to modify older applications.

Availability

Available in Mac OS X v10.0 and later.

See Also
- setEntryType: (page 99)

Declared In

NSCell.h

setFloatValue:

Sets the value of the receiver's cell using a single-precision floating-point number.

```
- (void)setFloatValue:(float)aFloat
```

Parameters

aFloat

The value of the cell interpreted as a single-precision floating-point number.

Discussion

In its implementation, this method invokes the setObjectValue: (page 66) method to set the actual value. This method does nothing if the receiver is not a text-type cell.

Availability

Available in Mac OS X v10.0 and later.

See Also - floatValue (page 32) Declared In NSCell.h

setFocusRingType:

Sets the type of focus ring to be used.

- (void)setFocusRingType:(NSFocusRingType)focusRingType

Parameters

focusRingType

Possible values are listed in NSFocusRingType. **To disable a view's focus ring, specify** NSFocusRingTypeNone.

Discussion

You should only disable a view from drawing its focus ring if you want to draw your own focus ring, or if there is not sufficient space to display a focus ring in the default location.

Availability

Available in Mac OS X v10.3 and later.

See Also

focusRingType (page 32)

+ defaultFocusRingType (page 19)

Declared In

NSCell.h

setFont:

Sets the font to use when the receiver displays text.

```
- (void)setFont:(NSFont *)fontObj
```

Parameters

font0bj The font to use.

Discussion

If the receiver is not a text-type cell, the method converts it to that type before setting the font.

Availability

Available in Mac OS X v10.0 and later.

See Also - font (page 33)

Related Sample Code Mountains

Declared In NSCell.h

setFormatter:

Sets the receiver's formatter object.

- (void)setFormatter:(NSFormatter *)newFormatter

Parameters

newFormatter

The formatter to use with the cell, or nil if you do not want the cell to use a formatter.

Discussion

Cells use a formatter object to format the textual representation of their object value and to validate cell input and convert that input to an object value. If the new formatter cannot interpret the receiver's current object value, that value is converted to a string object.

Availability

Available in Mac OS X v10.0 and later.

See Also

```
- formatter (page 33)
```

Declared In

NSCell.h

setHighlighted:

Sets whether the receiver has a highlighted appearance.

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

Parameters

flag

If YES, the receiver has a highlight.

Discussion

By default, this method does nothing. The NSButtonCell class overrides this method to draw the button with the appearance specified by NSCellLightsByBackground, NSCellLightsByContents, or NSCellLightsByGray.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

setImage:

Sets the image to be displayed by the receiver.

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

Parameters

image

The image to display in the cell.

If the receiver is not an image-type cell, the method converts it to that type of cell.

Availability

Available in Mac OS X v10.0 and later.

See Also

- image (page 36)
- setType: (page 73)

Related Sample Code

EnhancedDataBurn ImageBackground QTKitMovieShuffler Transformed Image

Declared In

NSCell.h

setImportsGraphics:

Sets whether the receiver can import images into its text.

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

Parameters

flag

If YES, the receiver can import images into its text and support RTFD text. If NO, RTFD text is not supported.

Discussion

If *flag* is YES, the receiver is also set to allow editing of text attributes.

Availability

Available in Mac OS X v10.0 and later.

See Also

- importsGraphics (page 37)
- setAllowsEditingTextAttributes: (page 52)

Declared In

NSCell.h

setIntegerValue:

Sets the value of the receiver using an NSInteger.

- (void)setIntegerValue:(NSInteger)anInteger

Parameters

anInteger

The value of the cell interpreted as an NSInteger.

In its implementation, this method invokes the setObjectValue: (page 66) method to set the actual value. This method does nothing if the receiver is not a text-type cell.

Availability

Available in Mac OS X v10.5 and later.

See Also

- integerValue (page 38)

- setIntValue: (page 64)

Declared In

NSCell.h

setIntValue:

Sets the value of the receiver using an integer.

```
- (void)setIntValue:(int)anInt
```

Parameters

anInt

The value of the cell interpreted as an integer.

Discussion

In its implementation, this method invokes the setObjectValue: (page 66) method to set the actual value. This method does nothing if the receiver is not a text-type cell.

On Mac OS X v10.5 and later, you should use setIntegerValue: (page 63) instead.

Availability

Available in Mac OS X v10.0 and later.

See Also

```
- intValue (page 39)
```

- setIntegerValue: (page 63)

Declared In

NSCell.h

setLineBreakMode:

Sets the line break mode to use when drawing text

- (void)setLineBreakMode:(NSLineBreakMode)mode

Parameters

mode

The desired line break mode, which should be one of the following constants:

```
NSLineBreakByWordWrapping, NSLineBreakByCharWrapping, NSLineBreakByClipping, NSLineBreakByTruncatingHead, NSLineBreakByTruncatingTail, or NSLineBreakByTruncatingMiddle.
```

The line break mode can also be modified by calling the setWraps: (page 74) method.

Availability

Available in Mac OS X v10.4 and later.

See Also

- lineBreakMode (page 44)
- setWraps: (page 74)

Declared In

NSCell.h

setMenu:

Sets the contextual menu for the cell.

- (void)setMenu:(NSMenu *)aMenu

Parameters

aMenu

A menu that has commands contextually related to the receiver. Specify nil to clear the previous menu.

Availability

Available in Mac OS X v10.0 and later.

See Also

- menu (page 44)

Declared In

NSCell.h

setMnemonicLocation:

Sets the character of the receiver's title to be used as a mnemonic character.

- (void)setMnemonicLocation:(NSUInteger)location

Parameters

location

The zero-based index into the cell's title string specifying the location of the mnemonic character. The specified character is underlined when the title is drawn.

Discussion

Mnemonics are not supported in Mac OS X.

Availability

Available in Mac OS X v10.0 and later.

See Also

- mnemonicLocation (page 45)

Declared In NSCell.h

setNextState

Changes the state of the receiver to its next state.

- (void)setNextState

Discussion

If the receiver has three states, it cycles through them in this order: on, off, mixed, on, and so forth. If the receiver has two states, it toggles between them.

Availability

Available in Mac OS X v10.0 and later.

See Also

- allowsMixedState (page 21)
- nextState (page 46)
- setAllowsMixedState: (page 52)

Declared In

NSCell.h

setObjectValue:

Sets the receiver's object value.

- (void)setObjectValue:(id < NSCopying >)object

Parameters

object

The new object value for the cell.

Discussion

To be valid object value, the receiver must have a formatter capable of converting the object to and from its textual representation.

Availability

Available in Mac OS X v10.0 and later.

See Also

- objectValue (page 47)
- setRepresentedObject: (page 67)

Declared In

NSCell.h

setRefusesFirstResponder:

Sets whether the receiver should not become the first responder.

- (void)setRefusesFirstResponder:(BOOL)flag

Parameters

flag

If YES, the receiver should never become the first responder; otherwise, it may become the first responder.

Discussion

If refusesFirstResponder (page 48) returns NO and the cell is enabled, the method acceptsFirstResponder (page 20) returns YES, allowing the cell to become first responder.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

setRepresentedObject:

Sets the object represented by the receiver.

- (void)setRepresentedObject:(id)anObject

Parameters

anObject

The object to associate with the receiver.

Discussion

You can use this method to link two objects together. For example, if the receiver's title was "Blue", you could associate an NSColor object whose color was set to blue.

Special Considerations

Note that if you copy an NSCell instance, the represented object in the copy is set to nil.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setObjectValue: (page 66)
- representedObject (page 48)

Declared In

NSCell.h

setScrollable:

Sets whether excess text in the receiver is scrolled past the cell's bounds.

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

Parameters

flag

If YES, text can be scrolled past the cell's bounds; otherwise, if NO, the text wrapping is enabled.

Availability

Available in Mac OS X v10.0 and later.

See Also

- isScrollable (page 43)

Declared In

NSCell.h

setSelectable:

Sets whether text in the receiver can be selected.

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

Parameters

flag

If YES, the receiver's text can be selected. If this value is N0, editability is also disabled; if it is YES, editability is not affected.

Availability Available in Mac OS X v10.0 and later.

See Also

```
isSelectable (page 43)setEditable: (page 58)
```

Declared In

NSCell.h

setSendsActionOnEndEditing:

Sets whether the receiver's NSControl object sends its action message whenever the user finishes editing the cell's text.

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

Parameters

flag

If YES, the receiver's control sends its action message when editing is complete; otherwise, if NO, it sends the action message only when the user presses the Return key.

Discussion

If *flag* is YES, the receiver's NSControl object sends its action message when the user does one of the following:

- Presses the Return key
- Presses the Tab key to move out of the field
- Clicks another text field

Availability

Available in Mac OS X v10.0 and later.

See Also

- sendsActionOnEndEditing (page 50)

Related Sample Code Quartz Composer QCTV

Declared In

NSCell.h

setShowsFirstResponder:

Sets whether the receiver draws some indication of its first responder status.

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

Parameters

flag

If YES, the receiver draws an indication of its first responder status, otherwise it does not.

Availability Available in Mac OS X v10.0 and later.

See Also

- showsFirstResponder (page 75)

Declared In NSCell.h

setState:

Sets the receiver's state to the specified value.

```
- (void)setState:(NSInteger)value
```

Parameters

value

The possible state values are NSOnState, NSOffState, and NSMixedState. If the cell supports only two states and you specify NSMixedState, this method sets the state to NSOnState.

Discussion

The NSOffState state indicates the normal or unpressed state. The NSOnState state indicates the alternate or pressed state. The NSMixedState state indicates that the feature represented by the control is in effect somewhere.

Although using the enumerated constants is preferred, *value* can also be an integer. If the cell has two states, 0 is treated as NSOffState, and a nonzero value is treated as NSOnState. If the cell has three states, 0 is treated as NSOffState; a negative value, as NSMixedState; and a positive value, as NSOnState.

Note that the value state (page 76) returns may not be the same value you passed into the value parameter.

To check whether the cell has three states (and uses the mixed state), invoke the allowsMixedState (page 21) method.

Availability

Available in Mac OS X v10.0 and later.

See Also

- state (page 76)
- setAllowsMixedState: (page 52)

Related Sample Code EnhancedDataBurn

Declared In NSCell.h

setStringValue:

Sets the value of the receiver's cell using an NSString object.

- (void)setStringValue:(NSString *)aString

Parameters

aString

The string value of the cell.

Discussion

In its implementation, this method invokes the setObjectValue: (page 66) method to set the actual value. If no formatter is assigned to the receiver or if the formatter cannot "translate" *aString* to an underlying object, the receiver is flagged as having an invalid object. If the receiver is not a text-type cell, this method converts it to one before setting the object value.

For Mac OS X v10.3 and later: If you use a class that responds to the selector attributedStringValue (page 22) for the object value of a cell, the cell uses that method to fetch the string to draw rather than the stringValue (page 77) method.

Availability

Available in Mac OS X v10.0 and later.

See Also
- stringValue (page 77)

Related Sample Code QTKitMovieShuffler

Declared In NSCell.h

setTag:

Sets the tag of the receiver.

- (void)setTag:(NSInteger)anInteger

Parameters

anInteger

The new tag for the cell.

Discussion

The NSCell implementation of this method raises NSInternalInconsistencyException. The NSActionCell implementation sets the receiver's tag integer to *anInteger*.

Tags allow you to identify particular cells. Tag values are not used internally; they are only changed by external invocations of setTag:. You typically set tag values in Interface Builder and use them at runtime in your application. When you set the tag of a control with a single cell in Interface Builder, it sets the tags of both the control and the cell to the same value as a convenience.

Availability

Available in Mac OS X v10.0 and later.

See Also - tag (page 78)

Related Sample Code

Quartz Composer WWDC 2005 TextEdit TextEditPlus

Declared In NSCell.h

setTarget:

Sets the target object to receive action messages.

- (void)setTarget:(id)anObject

Parameters

anObject

The new target object to associate with the receiver's cell, or nil to remove the current target.

Discussion

The NSCell implementation of this method raises NSInternalInconsistencyException. Subclasses (such as NSActionCell) override this method to set the target object as part of the target/action implementation.

Availability

Available in Mac OS X v10.0 and later.

See Also

- target (page 81)

Declared In

NSCell.h

setTitle:

Sets the title of the receiver.

- (void)setTitle:(NSString *)aString

Parameters

aString The new string value for the cell.

Availability Available in Mac OS X v10.0 and later.

See Also - title (page 81)

Related Sample Code ObjectPath Quartz Composer WWDC 2005 TextEdit TextEditPlus TextLinks

Declared In NSCell.h

setTitleWithMnemonic:

Sets the title of the receiver with one character in the string denoted as an access key.

- (void)setTitleWithMnemonic:(NSString *)aString

Parameters

aString

The new title of the cell. One character in the string should be preceded by an ampersand (&) character. The character that follows becomes the mnemonic character for the title.

Discussion

Mnemonics are not supported in Mac OS X.

Availability

Available in Mac OS X v10.0 and later.

See Also

- mnemonic (page 45)
- setMnemonicLocation: (page 65)

Declared In

NSCell.h

setTruncatesLastVisibleLine:

Sets whether the receiver truncates and adds the ellipsis character to the last visible line if the text doesn't fit into the cell bounds.

```
- (void)setTruncatesLastVisibleLine:(BOOL)flag
```
Parameters

flag

If YES, the receiver truncates the last line; if NO, it does not truncate.

Discussion

The line break mode must be either NSLineBreakByWordWrapping or NSLineBreakByCharWrapping. Otherwise, this setting is ignored.

Availability

Available in Mac OS X v10.5 and later.

See Also

- truncatesLastVisibleLine (page 83)

```
- setLineBreakMode: (page 64)
```

Declared In

NSCell.h

setType:

Sets the type of the cell, changing it to a text cell, image cell, or null cell.

```
- (void)setType:(NSCellType)aType
```

Parameters

аТуре

```
The new type of the cell (see "Cell Types" (page 85) for possible values).
```

Discussion

If the cell is already the same type as the one specified in the *aType* parameter, this method does nothing.

If *aType* is NSTextCellType, this method converts the receiver to a cell of that type, giving it a default title and setting the font to the system font at the default size. If *aType* is NSImageCellType, the cell type is not changed until you set a new non-nil image.

Availability

Available in Mac OS X v10.0 and later.

See Also

- type (page 83)
- setImage: (page 62)

Declared In

NSCell.h

setUpFieldEditorAttributes:

Configures the textual and background attributes of the receiver's field editor.

```
- (NSText *)setUpFieldEditorAttributes:(NSText *)textObj
```

Parameters

text0bj

The field editor to configure. .

Return Value

The configured field editor.

Discussion

If the receiver is disabled, this method sets the text color to dark gray; otherwise the method sets it to the default color. If the receiver has a bezeled border, this method sets the background to the default color for text backgrounds; otherwise, the method sets it to the color of the receiver's NSControl object.

You should not use this method to substitute a new field editor. setUpFieldEditorAttributes: (page
73) is intended to modify the attributes of the text object (that is, the field editor) passed into it and return
that text object. If you want to substitute your own field editor, use the fieldEditor:forObject: method
or the windowWillReturnFieldEditor:toObject: delegate method of NSWindow.

Availability

Available in Mac OS X v10.0 and later.

Declared In NSCell.h

setWraps:

Sets whether text in the receiver wraps when its length exceeds the frame of the cell.

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

Parameters

flag

If YES, the receiver wraps text and also makes the receiver nonscrollable; otherwise, if NO, text is not wrapped.

Discussion

If the text of the receiver is an attributed string value you must explicitly set the paragraph style line break mode. Calling this method with the value YES is equivalent to calling the setLineBreakMode: method with the value NSLineBreakByWordWrapping.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setLineBreakMode: (page 64)

- wraps (page 84)

Related Sample Code Quartz Composer QCTV

Declared In

NSCell.h

showsFirstResponder

Returns a Boolean value that indicates whether the receiver should draw some indication of its first responder status.

- (BOOL)showsFirstResponder

Return Value

YES if the receiver should draw an indication of its first responder status, otherwise NO.

Discussion

The NSCell class itself does not draw a first-responder indicator. Subclasses may use the returned value to determine whether or not they should draw one, however.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setShowsFirstResponder: (page 69)

Related Sample Code Clock Control

Declared In NSCell.h

startTrackingAt:inView:

Begins tracking mouse events within the receiver.

- (BOOL)startTrackingAt:(NSPoint)startPoint inView:(NSView *)controlView

Parameters

startPoint

The initial location of the cursor.

controlView

The NSControl object managing the receiver.

Return Value

YES if the receiver is set to respond continuously or set to respond when the mouse is dragged, otherwise NO.

Discussion

The NSCell implementation of trackMouse:inRect:ofView:untilMouseUp: (page 82) invokes this method when tracking begins. Subclasses can override this method to implement special mouse-tracking behavior at the beginning of mouse tracking—for example, displaying a special cursor.

Availability

Available in Mac OS X v10.0 and later.

See Also

- continueTracking:at:inView: (page 26)
- stopTracking:at:inView:mouseIsUp: (page 76)

Declared In

NSCell.h

state

Returns the receiver's state.

- (NSInteger)state

Return Value

The receiver's state (for possible values, see "Cell States" (page 91)).

Discussion

Cells can have two or three states. If the receiver has two states, it returns either NSOffState (the normal or unpressed state) or NSOnState (the alternate or pressed state). If it has three, it may also return NSMixedState, indicating the feature is in effect somewhere.

To check whether the receiver uses the mixed state, use the method allowsMixedState (page 21).

Note that the value state (page 76) returns may not be the same value you passed into setState: (page 69).

Availability Available in Mac OS X v10.0 and later.

See Also

- setState: (page 69)
- setAllowsMixedState: (page 52)

Declared In

NSCell.h

stopTracking:at:inView:mouseIsUp:

Stops tracking mouse events within the receiver.

```
- (void)stopTracking:(NSPoint)lastPoint at:(NSPoint)stopPoint inView:(NSView
 *)controlView mouseIsUp:(BOOL)flag
```

Parameters

lastPoint

Contains the previous position of the cursor.

stopPoint

The current location of the cursor.

controlView

The NSControl object managing the receiver.

flag

If YES, this method was invoked because the user released the mouse button; otherwise, if NO, the cursor left the designated tracking rectangle.

Discussion

The default NSCell implementation of trackMouse:inRect:ofView:untilMouseUp: (page 82) invokes this method when the cursor has left the bounds of the receiver or the mouse button goes up. The default NSCell implementation of this method does nothing. Subclasses often override this method to provide customized tracking behavior. The following example increments the state of a tristate cell when the mouse button is clicked:

```
- (void)stopTracking:(NSPoint)lastPoint at:(NSPoint)stopPoint
    inView:(NSView *)controlView mouseIsUp:(BOOL)flag
{
    if (flag == YES) {
        [self setTriState:([self triState]+1)];
    }
}
```

Availability

Available in Mac OS X v10.0 and later.

See Also

- startTrackingAt:inView: (page 75)
- continueTracking:at:inView: (page 26)

Declared In

NSCell.h

stringValue

Returns the value of the receiver's cell as an NSString object.

```
- (NSString *)stringValue
```

Return Value

The string value of the cell. This value may be an interpreted version of the cell's actual value. Interpretations are performed by the cell's formatter.

Discussion

If no formatter exists and the cell's value is an NSString object, this method returns the value as a plain, attributed, or localized formatted string. If the value is not an NSString object or cannot be converted to one, this method returns an empty string.

For Mac OS X v10.3 and later: If you use a class that responds to the selector attributedStringValue (page 22) for the object value of a cell, the cell uses that method to fetch the string to draw rather than the stringValue method.

Availability Available in Mac OS X v10.0 and later.

See Also
- setStringValue: (page 70)

Related Sample Code

QTKitMovieShuffler

Declared In

NSCell.h

tag

Returns the tag identifying the receiver.

- (NSInteger)tag

Return Value

The tag value. The NSCell implementation of this method returns -1.

Discussion

Tags allow you to identify particular cells. Tag values are not used internally; they are only changed by external invocations of setTag:. You typically set tag values in Interface Builder and use them at runtime in your application. When you set the tag of a control with a single cell in Interface Builder, it sets the tags of both the control and the cell to the same value as a convenience.

Availability

Available in Mac OS X v10.0 and later.

See Also
- setTag: (page 70)

Related Sample Code

EnhancedDataBurn MyCustomColorPicker Quartz Composer WWDC 2005 TextEdit TextEditPlus VertexPerformanceTest

Declared In

NSCell.h

takeDoubleValueFrom:

Sets the value of the receiver's cell to a double-precision floating-point value obtained from the specified object.

- (void)takeDoubleValueFrom:(id)sender

Parameters

sender

The object from which to take the value. This object must respond to the doubleValue (page 28) message.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setDoubleValue: (page 58)

Declared In

NSCell.h

takeFloatValueFrom:

Sets the value of the receiver's cell to a single-precision floating-point value obtained from the specified object.

- (void)takeFloatValueFrom:(id)sender

Parameters

```
sender
```

The object from which to take the value. This object must respond to the floatValue (page 32) message.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setFloatValue: (page 60)

Declared In

NSCell.h

takeIntegerValueFrom:

Sets the value of the receiver's cell to an integer value obtained from the specified object.

```
- (void)takeIntegerValueFrom:(id)sender
```

Parameters

sender

The object from which to take the value. This object must respond to the integerValue (page 38) message.

Availability

Available in Mac OS X v10.5 and later.

```
See Also
```

```
- setIntValue: (page 64)
```

```
- setIntegerValue: (page 63)
```

Declared In

NSCell.h

takeIntValueFrom:

Sets the value of the receiver's cell to an integer value obtained from the specified object.

```
- (void)takeIntValueFrom:(id)sender
```

Parameters

sender

The object from which to take the value. This object must respond to the intValue (page 39) message.

Discussion

On Mac OS X v10.5 and later you should use takeIntegerValueFrom: (page 79) instead.

Availability

Available in Mac OS X v10.0 and later.

See Also

- takeIntegerValueFrom: (page 79)
- setIntValue: (page 64)
- setIntegerValue: (page 63)

Declared In

NSCell.h

takeObjectValueFrom:

Sets the value of the receiver's cell to the object value obtained from the specified object.

```
- (void)takeObjectValueFrom:(id)sender
```

Parameters

sender

The object from which to take the value. This object must respond to the objectValue (page 47) message.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setObjectValue: (page 66)

Declared In

NSCell.h

takeStringValueFrom:

Sets the value of the receiver's cell to the string value obtained from the specified object.

```
- (void)takeStringValueFrom:(id)sender
```

Parameters

sender

The object from which to take the value. This object must respond to the stringValue (page 77) message.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setStringValue: (page 70)

Declared In NSCell.h

target

Returns the target object of the receiver.

- (id)target

Return Value

The target object that receives action messages from the cell. The NSCell implementation of this method returns nil.

Discussion

Subclasses (such as NSActionCell) override this method to return the target object as part of the target/action implementation.

Availability Available in Mac OS X v10.0 and later.

See Also
- setTarget: (page 71)

Declared In NSCell.h

title

Returns the receiver's title.

- (NSString *)title

Return Value

The cell's string value.

Discussion Subclasses (such as NSButtonCell) may override this method to return a different value.

Availability Available in Mac OS X v10.0 and later.

See Also
- setTitle: (page 71)

Declared In NSCell.h

titleRectForBounds:

Returns the rectangle in which the receiver draws its title text.

- (NSRect)titleRectForBounds:(NSRect)theRect

Parameters

```
theRect
```

The bounding rectangle of the receiver.

Return Value

The rectangle in which the receiver draws its title text.

Discussion

If the receiver is a text-type cell, this method resizes the drawing rectangle for the title (*theRect*) inward by a small offset to accommodate the cell border. If the receiver is not a text-type cell, the method does nothing.

Availability

Available in Mac OS X v10.0 and later.

See Also

- imageRectForBounds: (page 37)

Declared In

NSCell.h

trackMouse:inRect:ofView:untilMouseUp:

Initiates the mouse tracking behavior in a cell.

- (BOOL)trackMouse:(NSEvent *)theEvent inRect:(NSRect)cellFrame ofView:(NSView *)controlView untilMouseUp:(BOOL)untilMouseUp

Parameters

```
theEvent
```

The event that caused the mouse tracking to occur.

cellFrame

The receiver's frame rectangle.

controlView

The view containing the receiver. This is usually an NSControl object.

untilMouseUp

If YES, mouse tracking continues until the user releases the mouse button; otherwise, if N0, tracking continues until the cursor leaves the tracking rectangle, specified by the *cellFrame* parameter, regardless of the mouse button state. See the discussion for more information.

Return Value

YES if the mouse tracking conditions are met, otherwise NO.

Discussion

This method is generally not overridden because the default implementation invokes other NSCell methods that can be overridden to handle specific events in a dragging session. This method's return value depends on the *untilMouseUp* flag. If *untilMouseUp* is set to YES, this method returns YES if the mouse button goes up while the cursor is anywhere; NO, otherwise. If *untilMouseUp* is set to NO, this method returns YES if the mouse button goes up while the cursor is within *cellFrame*; NO, otherwise.

This method first invokes startTrackingAt:inView: (page 75). If that method returns YES, then as mouse-dragged events are intercepted, continueTracking:at:inView: (page 26) is invoked until either the method returns N0 or the mouse is released. Finally, stopTracking:at:inView:mouseIsUp: (page 76) is invoked if the mouse is released. If *untilMouseUp* is YES, it's invoked when the mouse button goes up while the cursor is anywhere. If *untilMouseUp* is N0, it's invoked when the mouse button goes up while the cursor is within *cellFrame*. You usually override one or more of these methods to respond to specific mouse events.

Availability

Available in Mac OS X v10.0 and later.

Declared In NSCell.h

truncatesLastVisibleLine

Returns a Boolean value indicating whether the receiver truncates and adds the ellipsis character to the last visible line if the text doesn't fit into the cell bounds.

- (BOOL)truncatesLastVisibleLine

Return Value

YES if the receiver truncates the last line; otherwise NO.

Discussion

The line break mode must be either NSLineBreakByWordWrapping or NSLineBreakByCharWrapping. Otherwise, this setting is ignored.

Availability

Available in Mac OS X v10.5 and later.

See Also

- setTruncatesLastVisibleLine: (page 72)
- lineBreakMode (page 44)

Declared In

NSCell.h

type

Returns the type of the receiver

```
- (NSCellType)type
```

Return Value

The type of the cell (see "Cell Types" (page 85) for possible values).

Availability

Available in Mac OS X v10.0 and later.

See Also
- setType: (page 73)

Related Sample Code Clock Control

Declared In NSCell.h

wantsNotificationForMarkedText

Returns a Boolean value that indicates whether the field editor initiated by the receiver should post text change notifications.

- (BOOL)wantsNotificationForMarkedText

Return Value

YES if the field editor initiated by the receiver should post text change notifications (NSTextDidChangeNotification) while editing marked text; otherwise, they are delayed until the marked text confirmation.

Discussion

NSCell's implementation returns NO.

Availability

Available in Mac OS X v10.5 and later.

Declared In

NSCell.h

wraps

Returns a Boolean value that indicates whether the receiver wraps its text when the text exceeds the borders of the cell.

- (BOOL)wraps

Return Value

YES if the receiver wraps text, otherwise NO.

Availability

Available in Mac OS X v10.0 and later.

See Also

- setWraps: (page 74)

Declared In

NSCell.h

Constants

NSCellType

Defines a type for cell types.

typedef NSUInteger NSCellType;

Discussion For possible values, see "Cell Types" (page 85).

Availability Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

Cell Types

These constants specify how a cell represents its data (as text or as an image).

```
enum {
    NSNullCellType = 0,
    NSTextCellType = 1,
    NSImageCellType = 2
};
```

Constants

NSNullCellType Cell displays nothing.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

```
NSTextCellType
```

Cell displays text.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSImageCellType

Cell displays images.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

Discussion

These constants are used by setType: (page 73) and type (page 83).

Declared In

NSCell.h

NSCellAttribute

Defines a type for cell attributes.

typedef NSUInteger NSCellAttribute;

Discussion

For possible values, see "Cell Attributes" (page 86).

Availability Available in Mac OS X v10.0 and later.

Declared In NSCell.h

.

Cell Attributes

These constants specify how a button behaves when pressed and how it displays its state.

```
typedef enum _NSCellAttribute {
    NSCellDisabled
                                    = 0.
    NSCellState
                                    = 1.
   NSPushInCell
                                   = 2,
   NSCellEditable
                                   = 3.
   NSChangeGrayCell
NSCellHighlighted
                                  = 4,
                                  = 5.
   NSCellLightsByContents
NSCellLightsByGray
NSChangeBackgroundCell
                                  = 6.
                                  = 7,
                                  = 8,
    NSChangeBackgroundeer,
NSCellLightsByBackground
                                   = 9.
                                    = 10.
    NSCellIsBordered
    NSCellHasOverlappingImage = 11,
NSCellHasImageHorizontal = 12,
    NSCellHasImageOnLeftOrBottom = 13,
    NSCellChangesContents = 14,
    NSCellIsInsetButton
                                  = 15.
    NSCellAllowsMixedState = 16
```

> NSCellAttribute;

Constants

NSCellAllowsMixedState

Lets the cell's state be NSMixedState, as well as NSOffState and NSOnState.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSChangeBackgroundCell

If the cell's state is NSMixedState or NSOnState, changes the cell's background color from gray to white.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellChangesContents

If the cell's state is NSMixedState or NSOnState, displays the cell's alternate image.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSChangeGrayCell

If the cell's state is NSMixedState or NSOnState, displays the cell's image as darkened.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellDisabled

Does not let the user manipulate the cell.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellEditable

Lets the user edit the cell's contents.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellHasImageHorizontal

Controls the position of the cell's image: places the image on the right of any text in the cell.

Together, NSCellHasImageOnLeftOrBottom, NSCellHasImageHorizontal, and NSCellHasOverlappingImage control the position of the cell's image and text. To place the image above, set none of them. To place the image below, set NSCellHasImageOnLeftOrBottom. To place the image to the right, set NSCellHasImageHorizontal. To place the image to the left, set NSCellHasImageHorizontal and NSCellHasImageOnLeftOrBottom. To place the image directly over, set NSCellHasOverlappingImage.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellHasImageOnLeftOrBottom

Controls the position of the cell's image: places the image on the left of or below any text in the cell.

See NSCellHasImageHorizontal (page 87) for more details.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellHasOverlappingImage

Controls the position of the cell's image: places the image over any text in the cell.

See NSCellHasImageHorizontal (page 87) for more details.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellHighlighted

Draws the cell with a highlighted appearance. (**Deprecated**. Use setHighlighted: (page 62) instead.)

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellIsBordered

Draws a border around the cell.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellIsInsetButton

Insets the cell's contents from the border.

By default, the cell's contents are inset by 2 points. This constant is ignored if the cell is unbordered.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellLightsByBackground

If the cell is pushed in, changes the cell's background color from gray to white.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellLightsByContents

If the cell is pushed in, displays the cell's alternate image.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellLightsByGray

If the cell is pushed in, displays the cell's image as darkened.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSPushInCell

Determines whether the cell's image and text appear to be shifted down and to the right.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellState

The cell's state.

The cell's state can be NSMixedState, NSOffState, or NSOnState.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

Discussion

These constants are used by the NSButton and NSButtonCell classes:

Declared In

NSCell.h

NSCellImagePosition

Defines a type to specify the position of an image in a cell.

typedef NSUInteger NSCellImagePosition;

Discussion

For possible values, see "Image Position" (page 89).

Availability Available in Mac OS X v10.0 and later.

Declared In NSCell.h

Image Position

These constants specify the position of a button's image relative to its title.

```
typedef enum _NSCellImagePosition {
    NSNoImage = 0,
    NSImageOnly = 1,
    NSImageLeft = 2,
    NSImageRight = 3,
    NSImageBelow = 4,
    NSImageAbove = 5,
    NSImageOverlaps = 6
} NSCellImagePosition;
```

Constants

NSNoImage

The cell doesn't display an image.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSImageOnly

The cell displays an image, but not a title.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSImageLeft

The image is to the left of the title.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSImageRight

The image is to the right of the title.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSImageBelow

The image is below the title.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSImageAbove

The image is above the title.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSImageOverlaps

The image overlaps the title.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

Discussion

These constants are used by the setImagePosition: and imagePosition methods of NSButton and NSButtonCell.

Declared In

NSCell.h

NSImageScaling

Defines a type to specify the scaling behavior of an image in a cell.

typedef NSUInteger NSImageScaling;

Discussion

For possible values, see "Image Scaling" (page 90).

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSCell.h

Image Scaling

These constants specify a cell's image scaling behavior.

```
enum {
    NSImageScaleProportionallyDown = 0,
    NSImageScaleAxesIndependently,
    NSImageScaleNone,
    NSImageScaleProportionallyUpOrDown
}:
```

Constants

NSImageScaleProportionallyDown

If it is too large for the destination, scale the image down while preserving the aspect ratio.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

NSImageScaleAxesIndependently

Scale each dimension to exactly fit destination.

This setting does not preserve the aspect ratio of the image.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

NSImageScaleNone

Do not scale the image.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

NSImageScaleProportionallyUpOrDown

Scale the image to its maximum possible dimensions while both staying within the destination area and preserving its aspect ratio.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

Declared In NSCell.h

Deprecated Constants

These are deprecated scaling constants. (Deprecated. Use "Image Scaling" (page 90) constants instead.)

enum { NSScaleProportionally = 0, NSScaleToFit, NSScaleNone

};

Constants

```
NSScaleProportionally
Use NSImageScaleProportionallyDown (page 90).
```

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSScaleToFit

Use NSImageScaleAxesIndependently (page 90).

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSScaleNone

Use NSImageScaleNone (page 90).

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSCellStateValue

Defines a type to specify the state of a cell.

typedef NSUInteger NSCellStateValue;

Discussion For possible values, see "Cell States" (page 91).

Availability Available in Mac OS X v10.0 and later.

Declared In NSCell.h

Cell States

These constants specify a cell's state and are used mostly for buttons.

```
typedef enum _NSCellState {
    NSMixedState = -1,
    NSOffState = 0,
    NSOnState = 1
} NSCellStateValue;
```

Constants

NSMixedState

The corresponding feature is in effect somewhere.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSOffState

The corresponding feature is in effect nowhere.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSOnState

The corresponding feature is in effect everywhere.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

Discussion

These constants are described in Cell States.

Declared In

NSCell.h

State Masks

These constants specify what happens when a button is pressed or is displaying its alternate state.

```
enum {
    NSNoCellMask = 0,
    NSContentsCellMask = 1,
    NSPushInCellMask = 2,
    NSChangeGrayCellMask = 4,
    NSChangeBackgroundCellMask = 8
```

};

Constants

NSNoCellMask

The button cell doesn't change.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSPushInCellMask

The button cell "pushes in" if it has a border.

Available in Mac OS X v10.0 and later.

```
Declared in NSCell.h.
```

NSContentsCellMask

The button cell displays its alternate icon and/or title.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSChangeGrayCellMask

The button cell swaps the "control color" (the controlColor method of NSColor) and white pixels on its background and icon.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSChangeBackgroundCellMask

Same as NSChangeGrayCellMask, but only background pixels are changed.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

Discussion

These contents are used by the highlightsBy and showsStateBy methods of NSButtonCell.

Declared In

NSCell.h

NSControlTint

Defines a type to specify the tint of a cell.

typedef NSUInteger NSControlTint;

Discussion

For possible values, see "Control Tints" (page 93).

Availability

Available in Mac OS X v10.0 and later.

Declared In NSCell.h

Control Tints

These constants specify a cell's tint.

```
typedef enum _NSControlTint {
    NSDefaultControlTint = 0,
    NSBlueControlTint = 1,
    NSGraphiteControlTint = 6,
    NSClearControlTint = 7
} NSControlTint;
```

Constants

NSDefaultControlTint

The current default tint setting

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSClearControlTint

Clear control tint

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSBlueControlTint

Aqua control tint

Available in Mac OS X v10.3 and later.

Declared in NSCell.h.

NSGraphiteControlTint

Graphite control tint

Available in Mac OS X v10.3 and later.

Declared in NSCell.h.

Discussion

These constants are used by controlTint (page 27) and setControlTint: (page 57).

Declared In

NSCell.h

NSControlSize

Defines a type to specify the size of a cell.

typedef NSUInteger NSControlSize;

Discussion

For possible values, see "Control Sizes" (page 94).

Availability Available in Mac OS X v10.0 and later.

Declared In NSCell.h

Control Sizes

These constants specify a cell's size.

```
typedef enum _NSControlSize {
    NSRegularControlSize,
    NSSmallControlSize,
    NSMiniControlSize
} NSControlSize;
```

Constants

NSRegularControlSize

The control is sized as regular.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSSmallControlSize

The control has a smaller size.

This constant is for controls that cannot be resized in one direction, such as push buttons, radio buttons, checkboxes, sliders, scroll bars, pop-up buttons, tabs, and progress indicators. You should use a small system font with a small control.

Available in Mac OS X v10.0 and later.

Declared in NSCell.h.

NSMiniControlSize

The control has a smaller size than NSSmallControlSize.

Available in Mac OS X v10.3 and later.

Declared in NSCell.h.

Discussion

These constants are used by controlSize (page 27) and setControlSize: (page 56).

Declared In

NSCell.h

Hit Testing

These constants are used by hitTestForEvent:inRect:ofView: (page 36) to determine the effect of an event.

```
enum {
    NSCellHitNone = 0,
    NSCellHitContentArea = 1 << 0,
    NSCellHitEditableTextArea = 1 << 1,
    NSCellHitTrackableArea = 1 << 2,
};</pre>
```

Constants

NSCellHitNone

An empty area, or did not hit in the cell. Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

NSCellHitContentArea

A content area in the cell.

Available in Mac OS X v10.5 and later.

```
Declared in NSCell.h.
```

NSCellHitEditableTextArea

An editable text area of the cell.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

NSCellHitTrackableArea

A trackable area in the cell.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

Declared In

NSCell.h

Data Entry Types

These constants specify how a cell formats numeric data.

```
enum {
    NSAnyType = 0,
    NSIntType = 1,
    NSPositiveIntType = 2,
    NSFloatType = 3,
    NSPositiveFloatType = 4,
    NSDoubleType = 6,
    NSPositiveDoubleType = 7
```

};

Constants

NSIntType

Must be between INT_MIN and INT_MAX.

Deprecated in Mac OS X v10.4 and later.

Declared in NSCell.h.

NSPositiveIntType

Must be between 1 and INT_MAX.

Deprecated in Mac OS X v10.4 and later.

Declared in NSCell.h.

NSFloatType

Must be between <code>-FLT_MAX</code> and <code>FLT_MAX</code>.

Deprecated in Mac OS X v10.4 and later.

Declared in NSCell.h.

NSPositiveFloatType

Must be between FLT_MIN and FLT_MAX.

Deprecated in Mac OS X v10.4 and later.

Declared in NSCell.h.

NSDoubleType

Must be between -FLT_MAX and FLT_MAX.

Deprecated in Mac OS X v10.4 and later.

Declared in NSCell.h.

NSPositiveDoubleType

Must be between FLT_MIN and FLT_MAX.

Deprecated in Mac OS X v10.4 and later.

Declared in NSCell.h.

NSAnyType

Any value is allowed.

Deprecated in Mac OS X v10.4 and later.

Declared in NSCell.h.

Discussion

These constants are used by setEntryType: (page 99) and entryType (page 99).

Declared In

NSCell.h

NSBackgroundStyle

Defines a type to specify the background style of a cell.

typedef NSUInteger NSBackgroundStyle;

Discussion

For possible values, see "Background Styles" (page 97).

Availability

Available in Mac OS X v10.5 and later.

Declared In

NSCell.h

Background Styles

Background styles used with backgroundStyle (page 23), setBackgroundStyle: (page 54), and interiorBackgroundStyle (page 39).

```
enum {
    NSBackgroundStyleLight = 0,
    NSBackgroundStyleDark,
    NSBackgroundStyleRaised,
    NSBackgroundStyleLowered
};
```

Constants

NSBackgroundStyleLight

The background is a light color.

Dark content contrasts well with this background.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

NSBackgroundStyleDark

The background is a dark color.

Light content contrasts well with this background.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

NSBackgroundStyleRaised

The background is intended to appear higher than the content drawn on it.

Content might need to be inset.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

NSBackgroundStyleLowered

The background is intended to appear lower than the content drawn on it.

Content might need to be embossed.

Available in Mac OS X v10.5 and later.

Declared in NSCell.h.

Declared In

NSCell.h

Notifications

NSControlTintDidChangeNotification

Sent after the user changes control tint preference. The notification object is NSApp. This notification does not contain a *userInfo* dictionary.

Availability

Available in Mac OS X v10.0 and later.

Declared In NSCell.h

Deprecated NSCell Methods

A method identified as deprecated has been superseded and may become unsupported in the future.

Deprecated in Mac OS X v10.0 and later

entryType

Returns the type of data the user can type into the receiver. (Deprecated in Mac OS X v10.0 and later. Use a formatter instead—see setFormatter: (page 62).)

- (NSInteger)entryType

Return Value

One of the types listed for this method in "Data Entry Types" (page 96). If the receiver is not a text-type cell, or if no type has been set, NSAnyType is returned.

Availability

Deprecated in Mac OS X v10.0 and later.

See Also
- isEntryAcceptable: (page 41)

Declared In NSCell.h

setEntryType:

Sets how numeric data is formatted in the receiver and places restrictions on acceptable input. (Deprecated in Mac OS X v10.0 and later. Use a formatter instead—see setFormatter: (page 62).)

- (void)setEntryType:(NSInteger)aType

Parameters

аТуре

One of the types listed for this method in "Data Entry Types" (page 96).

Discussion

The formatter associated with the receiver is replaced with a newly instantiated formatter appropriate to the entry type.

If the receiver isn't a text-type cell, this method converts it to one; in the process, it changes its title to "Cell" and sets its font to the user's system font at 12 points.

You can check whether formatted strings conform to the entry types of cells with the isEntryAcceptable: (page 41) method. NSControl subclasses also use isEntryAcceptable: (page 41) to validate what users have typed in editable cells. You can control the format of values accepted and displayed in cells by creating a custom subclass of NSFormatter and associating an instance of that class with cells (through setFormatter: (page 62)). In custom NSCell subclasses, you can also override isEntryAcceptable: (page 41) to check for the validity of data entered into cells.

Availability

Deprecated in Mac OS X v10.0 and later.

See Also

- entryType (page 99)

Declared In

NSCell.h

Document Revision History

This table describes the changes to NSCell Class Reference.

| Date | Notes |
|------------|--|
| 2009-02-04 | Documented truncatesLastVisibleLine and setTruncatesLastVisibleLine: methods. Added deprecated image scaling constants. |
| 2007-10-31 | Updated the description of the compare: method. |
| 2007-07-11 | Updated for Mac OS X v10.5. |
| 2006-11-07 | Added abstract to definition of stopTracking:at:inView:mouseIsUp:. |
| 2006-06-28 | Made minor changes to conform to reference consistency guidelines. |
| 2006-05-23 | Marked entryType, setEntryType: and the associated constants as deprecated in Mac OS X v10.4 and later. |
| | First publication of this content as a separate document. |

REVISION HISTORY

Document Revision History

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