
NSDatePickerCell Class Reference

User Experience: Controls



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NSDatePickerCell Class Reference

Inherits from	NSActionCell : NSCell : NSObject
Conforms to	NSCoding (NSCell) NSCopying (NSCell) NSObject (NSObject)
Framework	/System/Library/Frameworks/AppKit.framework
Availability	Available in Mac OS X v10.4 and later.
Declared in	NSDatePickerCell.h
Related sample code	DatePicker

Overview

An `NSDatePickerCell` instance controls the behavior of an `NSDatePicker` control, or of a single date picker cell in a matrix.

Tasks

Configuring Appearance

- [backgroundColor](#) (page 7)
Returns the receiver's background color.
- [setBackgroundColor:](#) (page 11)
Sets the receiver's background color
- [drawsBackground](#) (page 9)
Returns whether the receiver draws the background.
- [setDrawsBackground:](#) (page 13)
Sets whether the receiver draws the background.
- [textColor](#) (page 16)
Returns the receiver's text color.
- [setTextColor:](#) (page 15)
Sets the receiver's text color.

- [datePickerStyle](#) (page 8)
Returns the receiver's date picker style.
- [setDatePickerStyle:](#) (page 12)
Sets the receiver's date picker style.
- [datePickerElements](#) (page 8)
Returns a bitmask that indicates which visual elements of the date picker are currently shown, and which won't be usable because they are hidden.
- [setDatePickerElements:](#) (page 12)
Sets a bitmask that indicates which visual elements of the date picker are currently shown, and which won't be usable because they are hidden.

Range Mode

- [datePickerMode](#) (page 8)
Returns the receiver's date picker mode.
- [setDatePickerMode:](#) (page 12)
Sets the receiver's date picker mode.

Object Values

- [dateValue](#) (page 9)
Returns the receiver's date.
- [setDateValue:](#) (page 13)
Sets the receiver's date to a new starting value.
- [timeInterval](#) (page 16)
Returns the time interval that represents the date range.
- [setTimeInterval:](#) (page 15)
Sets the time interval of the date range.
- [calendar](#) (page 7)
Returns the calendar used by the receiver.
- [setCalendar:](#) (page 11)
Sets the receiver's calendar.
- [locale](#) (page 10)
Returns the receiver's locale.
- [setLocale:](#) (page 14)
Sets the receiver's locale.
- [timeZone](#) (page 17)
Returns the receiver's time zone.
- [setTimeZone:](#) (page 16)
Sets the receiver's time zone.

Date Range Constraints

- [minDate](#) (page 11)
Returns the minimum date value that the receiver allows as input.
- [setMinDate:](#) (page 15)
Sets the minimum date allowed as input by the receiver to the given date.
- [maxDate](#) (page 10)
Returns the maximum date value that the receiver allows as input.
- [setMaxDate:](#) (page 14)
Sets the maximum date allowed as input by the receiver to the given date.

Getting and Setting the Delegate

- [delegate](#) (page 9)
Returns the receiver's delegate.
- [setDelegate:](#) (page 13)
Sets the receiver's delegate.

Instance Methods

backgroundColor

Returns the receiver's background color.

- (NSColor *)backgroundColor

Return Value

The receiver's background color.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePickerCell.h

calendar

Returns the calendar used by the receiver.

- (NSCalendar *)calendar

Return Value

The calendar used by the receiver.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePickerCell.h

datePickerElements

Returns a bitmask that indicates which visual elements of the date picker are currently shown, and which won't be usable because they are hidden.

- (NSDatePickerElementFlags)datePickerElements

Return Value

A bitmask that specifies the date picker elements displayed by the receiver. See “Constants” (page 17) for a description of the possible values.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setDatePickerElements:](#) (page 12)

Declared In

NSDatePickerCell.h

datePickerMode

Returns the receiver's date picker mode.

- (NSDatePickerMode)datePickerMode

Return Value

The receiver's date picker mode.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setDatePickerMode:](#) (page 12)

Declared In

NSDatePickerCell.h

datePickerStyle

Returns the receiver's date picker style.

- (NSDatePickerStyle)datePickerStyle

Return Value

The receiver's date picker style.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setDatePickerStyle:](#) (page 12)

Declared In

NSDatePickerCell.h

dateValue

Returns the receiver's date.

- (NSDate *)dateValue

Return Value

The receiver's date.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePickerCell.h

delegate

Returns the receiver's delegate.

- (id < NSDatePickerCellDelegate >)delegate

Return Value

The receiver's delegate.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePickerCell.h

drawsBackground

Returns whether the receiver draws the background.

- (BOOL)drawsBackground

Return Value

YES if the receiver draws the background, otherwise NO.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePickerCell.h

locale

Returns the receiver's locale.

- (NSLocale *)locale

Return Value

The receiver's locale.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePickerCell.h

maxDate

Returns the maximum date value that the receiver allows as input.

- (NSDate *)maxDate

Return Value

The maximum date value that the receiver allows as input.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePickerCell.h

minDate

Returns the minimum date value that the receiver allows as input.

- (NSDate *)minDate

Return Value

The minimum date value that the receiver allows as input.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePickerCell.h

setBackground-color:

Sets the receiver's background color

- (void)setBackgroundColor:(NSColor *)color

Parameters

color

The new background color.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [backgroundColor](#) (page 7)

Declared In

NSDatePickerCell.h

setCalendar:

Sets the receiver's calendar.

- (void)setCalendar:(NSCalendar *)newCalendar

Parameters

newCalendar

The calendar used by the receiver.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [backgroundColor](#) (page 7)

Declared In

NSDatePickerCell.h

setDatePickerElements:

Sets a bitmask that indicates which visual elements of the date picker are currently shown, and which won't be usable because they are hidden.

- (void)setDatePickerElements:(NSDatePickerElementFlags)*elementFlags*

Parameters

elementFlags

A bitmask that specifies the date picker elements displayed by the receiver. See “Constants” (page 17) for a description of the possible values.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [datePickerElements](#) (page 8)

Declared In

NSDatePickerCell.h

setDatePickerMode:

Sets the receiver's date picker mode.

- (void)setDatePickerMode:(NSDatePickerMode)*newMode*

Parameters

newMode

The new date picker mode.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [datePickerMode](#) (page 8)

Declared In

NSDatePickerCell.h

setDatePickerStyle:

Sets the receiver's date picker style.

- (void)setDatePickerStyle:(NSDatePickerStyle)*newStyle*

Parameters

newStyle

The new date picker style.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [datePickerStyle](#) (page 8)

Declared In

NSDatePickerCell.h

setValue:

Sets the receiver's date to a new starting value.

- (void)setValue:(NSDate *)*newStartDate*

Parameters

newStartDate

The new starting date.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [dateValue](#) (page 9)

Declared In

NSDatePickerCell.h

setDelegate:

Sets the receiver's delegate.

- (void)setDelegate:(id < NSDatePickerCellDelegate >)*anObject*

Parameters

anObject

The receiver's delegate.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [delegate](#) (page 9)

Declared In

NSDatePickerCell.h

setDrawsBackground:

Sets whether the receiver draws the background.

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

Parameters

flag

YES if the receiver draws the background, otherwise NO.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [drawsBackground](#) (page 9)

Declared In

NSDatePickerCell.h

setLocale:

Sets the receiver's locale.

- (void)setLocale:(NSLocale *)*newLocale*

Parameters

newLocale

The receiver's locale.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [locale](#) (page 10)

Declared In

NSDatePickerCell.h

setMaxDate:

Sets the maximum date allowed as input by the receiver to the given date.

- (void)setMaxDate:(NSDate *)*date*

Parameters

date

The maximum date the receiver allows as input. Pass *nil* to allow any date as the maximum value.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [maxDate](#) (page 10)

Declared In

NSDatePickerCell.h

setMinDate:

Sets the minimum date allowed as input by the receiver to the given date.

```
- (void)setMinDate:(NSDate *)date
```

Parameters

date

The minimum date the receiver allows as input. Pass `nil` to allow any date as the minimum value.

Discussion

Passing `nil` for *date* allows any date as the minimum value.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [minDate](#) (page 11)

Declared In

NSDatePickerCell.h

setTextColor:

Sets the receiver's text color.

```
- (void)setTextColor:(NSColor *)color
```

Parameters

color

The new text color.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [textColor](#) (page 16)

Declared In

NSDatePickerCell.h

setTimeInterval:

Sets the time interval of the date range.

```
- (void)setTimeInterval:(NSTimeInterval)newTimeInterval
```

Parameters

newTimeInterval

The time interval of the date range.

Discussion

The time interval only applies when the receiver is in the [NSRangeDateMode](#) (page 19) mode.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [timeInterval](#) (page 16)

Declared In

NSDatePickerCell.h

setTimeZone:

Sets the receiver's time zone.

```
- (void)setTimeZone:(NSTimeZone *)newTimeZone
```

Parameters

newTimeZone

The receiver's time zone.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [timeZone](#) (page 17)

Declared In

NSDatePickerCell.h

textColor

Returns the receiver's text color.

```
- (NSColor *)textColor
```

Return Value

The receiver's text color.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePickerCell.h

timeInterval

Returns the time interval that represents the date range.

```
- (NSTimeInterval)timeInterval
```

Return Value

The time interval that represents the date range.

Discussion

The date range begins at the date returned by `dateValue` (page 9). This method returns 0 when the receiver is not in the `NSRangeDateMode` (page 19) mode.

Special Considerations

Prior to Mac OS X v 10.5 this method always returned 0.

Availability

Available in Mac OS X v10.4 and later.

See Also

- `setTimeInterval:` (page 15)

Declared In

`NSDatePickerCell.h`

timeZone

Returns the receiver’s time zone.

- (NSTimeZone *)timeZone

Return Value

The receiver’s time zone.

Availability

Available in Mac OS X v10.4 and later.

See Also

- `setTimeZone:` (page 16)

Declared In

`NSDatePickerCell.h`

Constants

NSDatePickerStyle

Specifies a type for constants that define the visual appearance of the `NSDatePickerCell`.

```
typedef NSUInteger NSDatePickerStyle;
```

Discussion

For a discussion of possible values, see “Date Picker Style” (page 18).

Availability

Available in Mac OS X v10.4 and later.

Declared In

NSDatePickerCell.h

Date Picker Style

The NSDatePickerStyle constants define the visual appearance of the NSDatePickerCell. These values are used by [datePickerStyle](#) (page 8) and [setDatePickerStyle:](#) (page 12).

```
enum {
    NSTextFieldAndStepperDatePickerStyle = 0,
    NSClockAndCalendarDatePickerStyle = 1,
    NSTextFieldDatePickerStyle = 2
};
typedef NSUInteger NSDatePickerStyle;
```

Constants

NSTextFieldAndStepperDatePickerStyle
Provide a text field and stepper style interface.

Available in Mac OS X v10.4 and later.

Declared in NSDatePickerCell.h.

NSClockAndCalendarDatePickerStyle
Provide a visual clock and calendar style interface.

Available in Mac OS X v10.4 and later.

Declared in NSDatePickerCell.h.

NSTextFieldDatePickerStyle
Provide a text field interface.

Available in Mac OS X v10.5 and later.

Declared in NSDatePickerCell.h.

Declared In

NSDatePickerCell.h

NSDatePickerMode

Specifies a type for constants that define whether the control provides a single date, or a range of dates.

```
typedef NSUInteger NSDatePickerMode;
```

Discussion

For a discussion of possible values, see [“Date Picker Mode”](#) (page 19).

Availability

Available in Mac OS X v10.4 and later.

Declared In

NSDatePickerCell.h

Date Picker Mode

The `NSDatePickerMode` constants define whether the control provides a single date, or a range of dates. These values are used by `datePickerMode` (page 8) and `setDatePickerMode:` (page 12).

```
enum {
    NSSingleDateMode = 0,
    NSRangeDateMode = 1
};
typedef NSUInteger NSDatePickerMode;
```

Constants

`NSSingleDateMode`

Allow selection of a single date.

Available in Mac OS X v10.4 and later.

Declared in `NSDatePickerCell.h`.

`NSRangeDateMode`

Allow selection of a range of dates. (First implemented in Mac OS X v 10.5.)

Available in Mac OS X v10.4 and later.

Declared in `NSDatePickerCell.h`.

Special Considerations

Prior to Mac OS X v 10.5 only `NSSingleDateMode` was implemented.

Declared In

`NSDatePickerCell.h`

NSDatePickerElementFlags

Specifies a type for constants that allow you to specify the date and time elements that the `NSDatePickerCell` can edit.

```
typedef NSUInteger NSDatePickerElementFlags;
```

Discussion

For a discussion of possible values, see “[Date Picker Elements](#)” (page 19).

Availability

Available in Mac OS X v10.4 and later.

Declared In

`NSDatePickerCell.h`

Date Picker Elements

The `NSDatePickerElementFlag` constants allow you to specify the date and time elements that the `NSDatePickerCell` can edit by combining these constants using the C bitwise OR operator. These values are used by `datePickerElements` (page 8) and `setDatePickerElements:` (page 12):

```
enum {
    NSHourMinuteDatePickerElementFlag = 0x000c,
    NSHourMinuteSecondDatePickerElementFlag = 0x000e,
    NSTimeZoneDatePickerElementFlag = 0x0010,
    NSYearMonthDatePickerElementFlag = 0x00c0,
    NSYearMonthDayDatePickerElementFlag = 0x00e0,
    NSEraDatePickerElementFlag = 0x0100,
};
typedef NSUInteger NSDatePickerElementFlags;
```

Constants

NSHourMinuteDatePickerElementFlag

Display and allow editing of the hour and minute elements of the date.

Available in Mac OS X v10.4 and later.

Declared in NSDatePickerCell.h.

NSHourMinuteSecondDatePickerElementFlag

Display and allow editing of the hour, minute and second elements of the date.

Available in Mac OS X v10.4 and later.

Declared in NSDatePickerCell.h.

NSTimeZoneDatePickerElementFlag

Display and allow editing of the time zone.

This flag has been declared for possible future use, and does not yet have any effect.

Available in Mac OS X v10.4 and later.

Declared in NSDatePickerCell.h.

NSYearMonthDatePickerElementFlag

Display and allow editing of the year and month elements of the date.

Available in Mac OS X v10.4 and later.

Declared in NSDatePickerCell.h.

NSYearMonthDayDatePickerElementFlag

Display and allow editing of the year, month and day elements of the date.

Available in Mac OS X v10.4 and later.

Declared in NSDatePickerCell.h.

NSEraDatePickerElementFlag

Display and allow editing of the era of the date, if applicable.

This flag has been declared for possible future use, and does not yet have any effect.

Available in Mac OS X v10.4 and later.

Declared in NSDatePickerCell.h.

Declared In

NSDatePickerCell.h

Document Revision History

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

Date	Notes
2009-04-15	Updated for Mac OS X v10.6. Delegate methods moved to NSDatePickerCellDelegate Protocol Reference.
2008-06-09	Added information concerning support for time intervals.
2007-04-01	Updated for Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

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