
NSDatePicker Class Reference

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



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NSDatePicker Class Reference

Inherits from	NSControl : NSView : NSResponder : NSObject
Conforms to	NSAnimatablePropertyContainer (NSView) NSCoding (NSResponder) NSObject (NSObject)
Framework	/System/Library/Frameworks/AppKit.framework
Availability	Available in Mac OS X v10.4 and later.
Declared in	NSDatePicker.h
Related sample code	DatePicker Mountains

Overview

`NSDatePicker` is a subclass of `NSControl` that provides a user interface for displaying and editing an `NSDate` object.

`NSDatePicker` uses an `NSDatePickerCell` to implement much of the control's functionality. `NSDatePicker` provides cover methods for most of `NSDatePickerCell` methods, which invoke the corresponding cell method.

Tasks

Configuring Date Pickers

- [isBezeled](#) (page 10)
Returns whether the receiver has a bezeled border.
- [setBezeled:](#) (page 12)
Specifies whether the receiver draws a bezeled border.
- [isBordered](#) (page 10)
Returns whether the receiver has a plain border.
- [setBordered:](#) (page 13)
Specifies whether the receiver draws a plain border.

- [backgroundColor](#) (page 7)
Returns the background color of the receiver.
- [setBackgroundcolor:](#) (page 12)
Sets the receiver's background color.
- [drawsBackground](#) (page 10)
Returns whether the receiver draws the background.
- [setDrawsBackground:](#) (page 15)
Specifies whether the receiver draws the background.
- [textColor](#) (page 18)
Returns the text color of the receiver.
- [setTextColor:](#) (page 17)
Sets the text color of the receiver.
- [datePickerStyle](#) (page 9)
Returns the receiver's date picker style.
- [setDatePickerStyle:](#) (page 14)
Sets the receiver's date picker style.
- [delegate](#) (page 9)
Returns the delegate of the receiver's date picker cell.
- [setDelegate:](#) (page 15)
Sets the delegate of the receiver's date picker cell.
- [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 13)
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.

Controlling Date Picker Range and Mode

- [calendar](#) (page 8)
Returns the calendar used by the receiver.
- [setCalendar:](#) (page 13)
Sets the receiver's calendar.
- [locale](#) (page 11)
Returns the receiver's locale.
- [setLocale:](#) (page 16)
Sets the receiver's locale.
- [datePickerMode](#) (page 8)
Returns the receiver's date picker mode.
- [setDatePickerMode:](#) (page 14)
Sets the receiver's date picker mode.
- [timeZone](#) (page 19)
Returns the receiver's time zone.

- [setTimeZone:](#) (page 17)
Sets the receiver's time zone.

Accessing Object Values

- [dateValue](#) (page 9)
Returns the receiver's date.
- [startDateValue:](#) (page 14)
Sets the receiver's date to a new starting value.
- [timeInterval](#) (page 18)
Returns the time interval that represents the date range.
- [setTimeInterval:](#) (page 17)
Sets the time interval of the date range.

Constraining the Displayable/Selectable Range

- [minDate](#) (page 11)
Returns the minimum date value the receiver allows as input.
- [setMinDate:](#) (page 16)
Sets the minimum date allowed as input by the receiver.
- [maxDate](#) (page 11)
Returns the maximum date value the receiver allows as input.
- [setMaxDate:](#) (page 16)
Sets the maximum date allowed as input by the receiver.

Instance Methods

backgroundColor

Returns the background color of the receiver.

- (NSColor *)backgroundColor

Return Value

The background color of the receiver.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setBackground-color:](#) (page 12)

Declared In

NSDatePicker.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 13)

Declared In

NSDatePicker.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” in `NSDatePickerCell` for a description of the possible values.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePicker.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 14)

Declared In

NSDatePicker.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 14)

Declared In

NSDatePicker.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 14)

Declared In

NSDatePicker.h

delegate

Returns the delegate of the receiver's date picker cell.

- (id)delegate

Return Value

The delegate of the receiver's date picker cell.

Discussion

The date picker's `NSDatePickerCell` instance handles all delegate methods.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePicker.h

drawsBackground

Returns whether the receiver draws the background.

- (BOOL)drawsBackground

Return Value

TRUE if the receiver draws the background, FALSE otherwise.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePicker.h

isBezeled

Returns whether the receiver has a bezeled border.

- (BOOL)isBezeled

Return Value

TRUE if the receiver has a bezeled border, FALSE otherwise.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePicker.h

isBordered

Returns whether the receiver has a plain border.

- (BOOL)isBordered

Return Value

TRUE if the receiver has a plain border, FALSE otherwise.

Availability

Available in Mac OS X v10.4 and later.

See Also

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

Declared In

NSDatePicker.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 16)

Declared In

NSDatePicker.h

maxDate

Returns the maximum date value the receiver allows as input.

- (NSDate *)maxDate

Return Value

The maximum date value the receiver allows as input. `nil` indicates no maximum date.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setMaxDate:](#) (page 16)

Declared In

NSDatePicker.h

minDate

Returns the minimum date value the receiver allows as input.

- (NSDate *)minDate

Return Value

The minimum date value the receiver allows as input. `nil` indicates no minimum date.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setMinDate:](#) (page 16)

Declared In

NSDatePicker.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

NSDatePicker.h

setBezeled:

Specifies whether the receiver draws a bezeled border.

- (void)setBezeled:(BOOL)flag

Parameters

flag

TRUE if the receiver has a bezeled border, FALSE otherwise.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [isBezeled](#) (page 10)

Declared In

NSDatePicker.h

setBordered:

Specifies whether the receiver draws a plain border.

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

Parameters

flag

TRUE if the receiver has a plain border, FALSE otherwise.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [isBordered](#) (page 10)

Declared In

NSDatePicker.h

setCalendar:

Sets the receiver's calendar.

```
- (void)setCalendar:(NSCalendar *)newCalendar
```

Parameters

newCalendar

The new calendar.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [calendar](#) (page 8)

Declared In

NSDatePicker.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" in `NSDatePickerCell` for a description of the possible values.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [datePickerElements](#) (page 8)

Declared In

NSDatePicker.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

NSDatePicker.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 9)

Declared In

NSDatePicker.h

setDateValue:

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

- (void)setDateValue:(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

NSDatePicker.h

setDelegate:

Sets the delegate of the receiver's date picker cell.

- (void)setDelegate:(id)*anObject*

Parameters

anObject

The new delegate.

Discussion

The date picker's `NSDatePickerCell` instance handles all delegate methods.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [delegate](#) (page 9)

Declared In

NSDatePicker.h

setDrawsBackground:

Specifies whether the receiver draws the background.

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

Parameters

flag

TRUE if the receiver draws the background, FALSE otherwise.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [drawsBackground](#) (page 10)

Declared In

NSDatePicker.h

setLocale:

Sets the receiver's locale.

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

Parameters

newLocale

The new locale.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [locale](#) (page 11)

Declared In

NSDatePicker.h

setMaxDate:

Sets the maximum date allowed as input by the receiver.

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

Parameters

date

The maximum date allowed as input by the receiver. `nil` indicates no maximum date.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [maxDate](#) (page 11)

Declared In

NSDatePicker.h

setMinDate:

Sets the minimum date allowed as input by the receiver.

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

Parameters

date

The minimum date allowed as input by the receiver. `nil` indicates no minimum date.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [minDate](#) (page 11)

Declared In

NSDatePicker.h

setTextColor:

Sets the text color of the receiver.

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

Parameters

color

The new text color.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [textColor](#) (page 18)

Declared In

NSDatePicker.h

setTimeInterval:

Sets the time interval of the date range.

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

Parameters

newTimeInterval

The new time interval.

Discussion

The time interval only applies when the receiver is in the `NSRangeDateMode` mode.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [timeInterval](#) (page 18)

Declared In

NSDatePicker.h

setTimeZone:

Sets the receiver's time zone.

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

Parameters

newTimeZone

The new time zone.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [timeZone](#) (page 19)

Declared In

NSDatePicker.h

textColor

Returns the text color of the receiver.

- (NSColor *)textColor

Return Value

The text color of the receiver.

Availability

Available in Mac OS X v10.4 and later.

See Also

- [setTextColor:](#) (page 17)

Declared In

NSDatePicker.h

timeInterval

Returns the time interval that represents the date range.

- (NSTimeInterval)timeInterval

Return Value

The time interval that represents the receiver's date range. The date range begins at the date returned by [dateValue](#) (page 9). This method returns 0 when the receiver is not in the `NSRangeDateMode` 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 17)

Declared In

NSDatePicker.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 17)

Declared In

NSDatePicker.h

Document Revision History

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

Date	Notes
2008-06-09	Added a reference to NSDatePickerCell in the delegate and setDelegate: methods.
2007-02-06	Added link to NSDatePickerCell.
2006-05-23	First publication of this content as a separate document.
	First publication of this content as a separate document.

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