

initWithString:
initWithString:calendarFormat:
initWithYear:month:day:hour:minute:second:timeZone:

Retrieving date elements dayOfMonth

dayOfWeek
dayOfYear
hourOfDay
minuteOfHour
monthOfYear
secondOfMinute
yearOfCommonEra

Providing adjusted date addYear:month:day:hour:minute:second:

Getting string descriptions of dates

description
descriptionWithCalendarFormat:
descriptionWithCalendarFormat:timeZone:

Getting and setting calendar formats

calendarFormat
setCalendarFormat:

Getting and setting time zones setTimeZone:

timeZoneDetail

`initWithString:calendarFormat:, setCalendarFormat:`

`initWithYear:month:day:hour:minute:second:timeZone:`

`(NSDate*)addYear:(int)year
month:(int)month
day:(int)day
hour:(int)hour
minute:(int)minute
second:(int)second`

Returns an NSDate object that is updated with the year, month, day, hour and second offsets arguments. The offsets can be positive (future) or negative (past). This method extracts and modifies

(NSString *)calendarFormat

Returns the calendar format for the NSDate object. If you do not specify with setCalendarFormat: as the default when invoking the description method, NSDate substitutes its own default: of `^%Y- %m-%d %H:%M:%S %z^` (for example, 1994-01-14 16:45:12 +0900). See the description of `dateWithString:calendarFormat:` for a discussion of date conversion specifiers.

(int)dayOfMonth

Returns a number that indicates the day of the month (1 through 31) of the receiving object.

dayOfYear dayOfWeek hourOfDay minuteOfHour monthOfYear secondOfMinute

(int)dayOfWeek

Returns a number that indicates the day of the week (0 through 6) of the receiving object 0 indicates

dayOfMonth dayOfYear hourOfDay minuteOfHour monthOfYear secondOfMinute yearOfC

(int)dayOfYear

Returns a number that indicates the day of the year (1 through 366) of the receiving object.

dayOfMonth dayOfWeek hourOfDay minuteOfHour monthOfYear secondOfMinute yearOfC

(NSString*)description

Returns the date as a string, represented according to the default format string for the object. The default calendar format string is `^%Y- %m-%d %H:%M:%S %z^` (for example, 1994-01-14 16:45:12 +0900). To change this and set your own default format string by invoking the `setCalendarFormat:` method. See the description of the method `dateWithString:calendarFormat:` for a listing of conversion specifiers for dates.

calendarFormat, descriptionWithCalendarFormat:, descriptionWithCalendarFormat:timeZone:

(NSString *)descriptionWithCalendarFormat:(NSString *)format

Returns a string representation of the NSDate object that is formatted as specified by the format string. The default time zone for the locale is assumed. The conversion specifier `%z` follows the conventions. See the description of the class method `dateWithString:calendarFormat:` for a listing of conversion specifiers.

This example gets the current date, formats it in the form `^Tues 3/1/94 3:30 PM^` and displays the result in the text field:

calendarFormat, description, descriptionWithCalendarFormat:timeZone:

calendarFormat, description, descriptionWithCalendarFormat, setCalendarFormat.

(int)hourOfDay

Returns the hour value (0 through 23) of the receiver. On "spring back" days a value of 1 is returned for 24 hours, but with a different time zone.

dayOfMonth dayOfWeek dayOfYear minuteOfHour monthOfYear secondOfMinute yearOfC

initWithString:(NSString *)description

Returns an NSDate object initialized with the date specified as a string in description. This is the international format for date representation YYYY-MM-DD HH:MM:SS +HHMM, where +HHMM is the minute offset from Greenwich Mean Time. An example of such a representation is "1995-05-11 13

initWithString:(NSString *)description calendarFormat:(NSString *)format

Returns an NSDate object initialized with the date specified as a string in description and the format string format. The format string consists of conversion specifiers for dates that are similar to NSDateFormatter(). See the description of the class method dateWithString:calendarFormat: for a listing of these specifiers.

For an example, let's assume you want to initialize an NSDate object with a string obtained from a date string. This date string takes the form "03.21.94 22:00 PST":

initWithYear:(int)year

month:(unsigned int)month

day:(unsigned int)day

hour:(unsigned int)hour

minute:(unsigned int)minute

second:(unsigned int)second

timeZone:(id <NSTimeZone>)timeZone

Returns an NSDate object that is initialized with the year, month, day, hour and second of the receiver and the time-zone object that are specified as arguments. The offsets can be positive (future) or negative (past), but the year value cannot be negative. The year value must include the century (for example, 1995 instead of 95). The month value must be one of the standard ones: 1 through 12 for months, 1 through 31 for days, 0 through 23 for hours and 0 through 59 for minutes and seconds.

The method verifies the time zone supplied as an argument and can substitute an alternative time zone. If you supply a new time zone, it applies the difference in offsets-from-GMT values between the substituted time zone and the original time zone to the date object being created.

(int)minuteOfHour

Returns the minutes value (0 through 59) of the receiver.

dayOfMonth dayOfWeek dayOfYear hourOfDay monthOfYear secondOfMinute yearOfCommonEra

(int)monthOfYear

Returns a number that indicates the month of the year (1 through 12) of the receiver.

dayOfMonth dayOfWeek dayOfYear hourOfDay minuteOfHour secondOfMinute yearOfCommonEra

(int)secondOfMinute

Returns the seconds value (0 through 59) of the receiver.

dayOfMonth dayOfWeek dayOfYear hourOfDay minuteOfHour monthOfYear yearOfCommonEra

(void)setCalendarFormat:(NSString *)format

Sets the default calendar format for the NSCalendar object. A calendar format string is a string for date conversion specifiers. If you do not specify a calendar format for an object, NSCalendarDate substitutes the default format for methods such as description and initWithString:. This is the international format of `“%Y-%m-%d %H:%M:%S+0900”` (for example, 1994-01-14 16:45:12 +0900). See the description of the class method dateWithString:calendarFormat: for a listing of date-conversion specifiers.

calendarFormat

(void)setTimeZone:(NSTimeZone *)timeZone

Sets the time zone that is associated with the NSCalendarDate object. When you create an NSCalendarDate object, the methods dateWithString:calendarFormat:, initWithString:, or initWithString:calendarFormat: set the associated time zone to be the default time zone for the locale. With this method you can set it to a different time zone.

timeZoneDetail

(NSTimeZoneDetail *)timeZoneDetail

Returns the time-zone detail object that is associated with the NSCalendarDate object.

setTimeZone:

(int)yearOfCommonEra

