NSTimeZone Class Reference

Cocoa > Data Management



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NSTimeZone Class Reference

Inherits from Conforms to	NSObject NSCoding NSCopying NSObject (NSObject)
Framework Availability	/System/Library/Frameworks/Foundation.framework Available in Mac OS X v10.0 and later.
Companion guide	Date and Time Programming Guide for Cocoa
Declared in	NSTimeZone.h

Overview

NSTimeZone is an abstract class that defines the behavior of time zone objects. Time zone objects represent geopolitical regions. Consequently, these objects have names for these regions. Time zone objects also represent a temporal offset, either plus or minus, from Greenwich Mean Time (GMT) and an abbreviation (such as PST for Pacific Standard Time).

NSTimeZone provides several class methods to get time zone objects: timeZoneWithName: (page 12), timeZoneWithAbbreviation: (page 11), and timeZoneForSecondsFromGMT: (page 11). The class also permits you to set the default time zone within your application (setDefaultTimeZone: (page 10)). You can access this default time zone at any time with the defaultTimeZone (page 8) class method, and with the localTimeZone (page 9) class method, you can get a relative time zone object that decodes itself to become the default time zone for any locale in which it finds itself.

Cocoa does not provide any API to change the time zone of the computer, or of other applications.

Some NSCalendarDate methods return date objects that are automatically bound to time zone objects. These date objects use the functionality of NSTimeZone to adjust dates for the proper locale. Unless you specify otherwise, objects returned from NSCalendarDate are bound to the default time zone for the current locale.

Note that, strictly, time zone database entries such as "America/Los_Angeles" are IDs not names. An example of a time zone name is "Pacific Daylight Time". Although many NSTimeZone method names include the word "name", they refer to IDs.

NSTimeZone is "toll-free bridged" with its Core Foundation counterpart, *CFTimeZone Reference*. This means that the Core Foundation type is interchangeable in function or method calls with the bridged Foundation object. Therefore, in a method where you see an NSTimeZone * parameter, you can pass a CFTimeZoneRef,

and in a function where you see a CFTimeZoneRef parameter, you can pass an NSTimeZone instance (you cast one type to the other to suppress compiler warnings). See Interchangeable Data Types for more information on toll-free bridging.

Adopted Protocols

NSCoding

- encodeWithCoder:
- initWithCoder:

NSCopying

- copyWithZone:

Tasks

Creating and Initializing Time Zone Objects

- + timeZoneWithAbbreviation: (page 11)
 Returns the time zone object identified by a given abbreviation.
- + timeZoneWithName: (page 12) Returns the time zone object identified by a given ID.
- + timeZoneWithName:data: (page 12)
 - Returns the time zone with a given ID whose data has been initialized using given data,
- + timeZoneForSecondsFromGMT: (page 11)

Returns a time zone object offset from Greenwich Mean Time by a given number of seconds.

- initWithName: (page 15)
 Returns a time zone initialized with a given ID.
- initWithName:data: (page 16)
 Initializes a time zone with a given ID and time zone data.

Working with System Time Zones

- + localTimeZone (page 9) Returns an object that forwards all messages to the default time zone for the current application.
- + defaultTimeZone (page 8)

Returns the default time zone for the current application.

+ setDefaultTimeZone: (page 10)

Sets the default time zone for the current application to a given time zone.

+ resetSystemTimeZone (page 10)

Resets the system time zone object cached by the application, if any.

+ systemTimeZone (page 10)

Returns the time zone currently used by the system.

Getting Time Zone Information

+ abbreviationDictionary (page 8)

Returns a dictionary holding the mappings of time zone abbreviations to time zone names.

+ knownTimeZoneNames (page 9)
 Returns an array of strings listing the IDs of all the time zones known to the system.

Getting Information About a Specific Time Zone

- abbreviation (page 13)
 Returns the abbreviation for the receiver.
- abbreviationForDate: (page 13)

Returns the abbreviation for the receiver at a given date.

- name (page 18)

Returns the geopolitical region ID that identifies the receiver.

- secondsFromGMT (page 19)

Returns the current difference in seconds between the receiver and Greenwich Mean Time.

- secondsFromGMTForDate: (page 19)

Returns the difference in seconds between the receiver and Greenwich Mean Time at a given date.

- data (page 14)

Returns the data that stores the information used by the receiver.

Comparing Time Zones

- isEqualToTimeZone: (page 17)

Returns a Boolean value that indicates whether the receiver has the same name and data as another given time zone.

Describing a Time Zone

- description (page 15)
 Returns the description of the receiver.
- localizedName:locale: (page 17)

Returns the name of the receiver localized for a given locale.

Getting Information About Daylight Saving

- isDaylightSavingTime (page 16)

Returns a Boolean value that indicates whether the receiver is currently using daylight saving time.

- daylightSavingTimeOffset (page 14)

Returns the current daylight saving time offset of the receiver.

- isDaylightSavingTimeForDate: (page 17)

Returns a Boolean value that indicates whether the receiver uses daylight savings time at a given date.

- daylightSavingTimeOffsetForDate: (page 15)

Returns the daylight saving time offset for a given date.

- nextDaylightSavingTimeTransition (page 18)
 Returns the date of the next daylight saving time transition for the receiver.
- nextDaylightSavingTimeTransitionAfterDate: (page 19)
 Returns the next daylight saving time transition after a given date.

Class Methods

abbreviationDictionary

Returns a dictionary holding the mappings of time zone abbreviations to time zone names.

+ (NSDictionary *)abbreviationDictionary

Return Value

A dictionary holding the mappings of time zone abbreviations to time zone names.

Discussion

Note that more than one time zone may have the same abbreviation—for example, US/Pacific and Canada/Pacific both use the abbreviation "PST." In these cases, abbreviationDictionary chooses a single name to map the abbreviation to.

Availability

Available in Mac OS X v10.0 and later.

Declared In NSTimeZone.h

defaultTimeZone

Returns the default time zone for the current application.

+ (NSTimeZone *)defaultTimeZone

Return Value

The default time zone for the current application. If no default time zone has been set, this method invokes systemTimeZone (page 10) and returns the system time zone.

Discussion

The default time zone is the one that the application is running with, which you can change (so you can make the application run as if it were in a different time zone).

If you get the default time zone and hold onto the returned object, it does not change if a subsequent invocation of setDefaultTimeZone: (page 10) changes the default time zone—you still have the specific time zone you originally got. Contrast this behavior with the object returned by localTimeZone (page 9).

Availability

Available in Mac OS X v10.0 and later.

See Also

- + localTimeZone (page 9)
- + setDefaultTimeZone: (page 10)
- + systemTimeZone (page 10)

Declared In

NSTimeZone.h

knownTimeZoneNames

Returns an array of strings listing the IDs of all the time zones known to the system.

+ (NSArray *)knownTimeZoneNames

Return Value

An array of strings listing the IDs of all the time zones known to the system.

Availability

Available in Mac OS X v10.0 and later.

Declared In NSTimeZone.h

localTimeZone

Returns an object that forwards all messages to the default time zone for the current application.

```
+ (NSTimeZone *)localTimeZone
```

Return Value

An object that forwards all messages to the default time zone for the current application.

Discussion

The local time zone represents the current state of the default time zone at all times. If you get the *default* time zone (using defaultTimeZone (page 8)) and hold onto the returned object, it does not change if a subsequent invocation of setDefaultTimeZone: (page 10) changes the default time zone—you still have the specific time zone you originally got. The *local* time zone adds a level of indirection, it acts as if it were the current default time zone whenever you invoke a method on it.

Availability

Available in Mac OS X v10.0 and later.

See Also

- + defaultTimeZone (page 8)
- + setDefaultTimeZone: (page 10)

Declared In NSTimeZone.h

resetSystemTimeZone

Resets the system time zone object cached by the application, if any.

+ (void)resetSystemTimeZone

Discussion

If the application has cached the system time zone, this method clears that cached object. If you subsequently invoke systemTimeZone (page 10), NSTimeZone will attempt to redetermine the system time zone and a new object will be created and cached (see systemTimeZone (page 10)).

Availability

Available in Mac OS X v10.0 and later.

See Also
+ systemTimeZone (page 10)

Declared In NSTimeZone.h

setDefaultTimeZone:

Sets the default time zone for the current application to a given time zone.

+ (void)setDefaultTimeZone:(NSTimeZone *)aTimeZone

Parameters

aTimeZone

The new default time zone for the current application.

Discussion

There can be only one default time zone, so by setting a new default time zone, you lose the previous one.

Availability

Available in Mac OS X v10.0 and later.

See Also

+ defaultTimeZone (page 8)

+ localTimeZone (page 9)

Declared In

NSTimeZone.h

systemTimeZone

Returns the time zone currently used by the system.

```
+ (NSTimeZone *)systemTimeZone
```

Return Value

The time zone currently used by the system. If the current time zone cannot be determined, returns the GMT time zone.

Special Considerations

If you get the system time zone, it is cached by the application and does not change if the user subsequently changes the system time zone. The next time you invoke systemTimeZone, you get back the same time zone you originally got. You have to invoke resetSystemTimeZone (page 10) to clear the cached object.

Availability

Available in Mac OS X v10.0 and later.

See Also
+ resetSystemTimeZone (page 10)

-

Declared In

NSTimeZone.h

timeZoneForSecondsFromGMT:

Returns a time zone object offset from Greenwich Mean Time by a given number of seconds.

+ (id)timeZoneForSecondsFromGMT:(NSInteger)seconds

Parameters

seconds

The number of seconds by which the new time zone is offset from GMT.

Return Value

A time zone object offset from Greenwich Mean Time by seconds.

Discussion

The name of the new time zone is GMT +/- the offset, in hours and minutes. Time zones created with this method never have daylight savings, and the offset is constant no matter the date.

Availability

Available in Mac OS X v10.0 and later.

See Also

- + timeZoneWithAbbreviation: (page 11)
- + timeZoneWithName: (page 12)

Declared In

NSTimeZone.h

timeZoneWithAbbreviation:

Returns the time zone object identified by a given abbreviation.

```
+ (id)timeZoneWithAbbreviation:(NSString *)abbreviation
```

Parameters

```
abbreviation
```

An abbreviation for a time zone.

Return Value

The time zone object identified by *abbreviation* determined by resolving the abbreviation to a name using the abbreviation dictionary and then returning the time zone for that name. Returns nil if there is no match for *abbreviation*.

Discussion

In general, you are discouraged from using abbreviations except for unique instances such as "UTC" or "GMT". Time Zone abbreviations are not standardized and so a given abbreviation may have multiple meanings—for example, "EST" refers to Eastern Time in both the United States and Australia

Availability

Available in Mac OS X v10.0 and later.

See Also

- + abbreviationDictionary (page 8)
- + timeZoneForSecondsFromGMT: (page 11)
- + timeZoneWithName: (page 12)

Declared In

NSTimeZone.h

timeZoneWithName:

Returns the time zone object identified by a given ID.

+ (id)timeZoneWithName:(NSString *)aTimeZoneName

Parameters

aName

The ID for the time zone.

Return Value

The time zone in the information directory with a name matching *aName*. Returns nil if there is no match for the name.

Availability

Available in Mac OS X v10.0 and later.

See Also

- + timeZoneForSecondsFromGMT: (page 11)
- + timeZoneWithAbbreviation: (page 11)
- + knownTimeZoneNames (page 9)

Declared In

NSTimeZone.h

timeZoneWithName:data:

Returns the time zone with a given ID whose data has been initialized using given data,

+ (id)timeZoneWithName:(NSString *)aTimeZoneName data:(NSData *)data

Parameters

aTimeZoneName

The ID for the time zone.

data

The data from the time-zone files located at /usr/share/zoneinfo.

Return Value

The time zone with the ID a TimeZoneName whose data has been initialized using the contents of data.

Discussion

You should not call this method directly—use timeZoneWithName: (page 12) to get the time zone object for a given name.

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

See Also
+ timeZoneWithName: (page 12)

Declared In NSTimeZone.h

Instance Methods

abbreviation

Returns the abbreviation for the receiver.

- (NSString *)abbreviation

Return Value

The abbreviation for the receiver, such as "EDT" (Eastern Daylight Time).

Discussion Invokes abbreviationForDate: (page 13) with the current date as the argument.

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

Declared In NSTimeZone.h

abbreviationForDate:

Returns the abbreviation for the receiver at a given date.

- (NSString *)abbreviationForDate:(NSDate *)aDate

Parameters

aDate

The date for which to get the abbreviation for the receiver.

Return Value

The abbreviation for the receiver at *aDate*.

Discussion

Note that the abbreviation may be different at different dates. For example, during daylight savings time the US/Eastern time zone has an abbreviation of "EDT." At other times, its abbreviation is "EST."

Availability

Available in Mac OS X v10.0 and later.

Declared In NSTimeZone.h

data

Returns the data that stores the information used by the receiver.

- (NSData *)data

Return Value

The data that stores the information used by the receiver.

Discussion

This data should be treated as an opaque object.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSTimeZone.h

daylightSavingTimeOffset

Returns the current daylight saving time offset of the receiver.

- (NSTimeInterval)daylightSavingTimeOffset

Return Value

The daylight current saving time offset of the receiver.

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

See Also

- isDaylightSavingTime (page 16)
- isDaylightSavingTimeForDate: (page 17)
- daylightSavingTimeOffsetForDate: (page 15)

Declared In NSTimeZone.h

daylightSavingTimeOffsetForDate:

Returns the daylight saving time offset for a given date.

- (NSTimeInterval)daylightSavingTimeOffsetForDate:(NSDate *)aDate

Parameters

aDate

A date.

Return Value The daylight saving time offset for *aDate*.

Availability

Available in Mac OS X v10.5 and later.

See Also

- isDaylightSavingTime (page 16)
- daylightSavingTimeOffset (page 14)
- isDaylightSavingTimeForDate: (page 17)
- nextDaylightSavingTimeTransitionAfterDate: (page 19)

Declared In

NSTimeZone.h

description

Returns the description of the receiver.

```
- (NSString *)description
```

Return Value

The description of the receiver, including the name, abbreviation, offset from GMT, and whether or not daylight savings time is currently in effect.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSTimeZone.h

initWithName:

Returns a time zone initialized with a given ID.

- (id)initWithName:(NSString *)aName

Parameters

aName

The ID for the time zone.

Return Value A time zone object initialized with the ID *aName*.

Discussion

If aName is a known ID, this method calls initWithName:data: (page 16) with the appropriate data object.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSTimeZone.h

initWithName:data:

Initializes a time zone with a given ID and time zone data.

- (id)initWithName:(NSString *)aName data:(NSData *)data

Parameters

aName

The ID for the time zone.

data

The data from the time-zone files located at /usr/share/zoneinfo.

Discussion

You should not call this method directly—use initWithName: (page 15) to get a time zone object.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSTimeZone.h

isDaylightSavingTime

Returns a Boolean value that indicates whether the receiver is currently using daylight saving time.

- (BOOL)isDaylightSavingTime

Return Value

YES if the receiver is currently using daylight savings time, otherwise NO.

Discussion

This method invokes isDaylightSavingTimeForDate: (page 17) with the current date as the argument.

Availability

Available in Mac OS X v10.0 and later.

See Also

- isDaylightSavingTimeForDate: (page 17)
- daylightSavingTimeOffset (page 14)
- daylightSavingTimeOffsetForDate: (page 15)
- nextDaylightSavingTimeTransition (page 18)
- nextDaylightSavingTimeTransitionAfterDate: (page 19)

Declared In NSTimeZone.h

isDaylightSavingTimeForDate:

Returns a Boolean value that indicates whether the receiver uses daylight savings time at a given date.

- (BOOL)isDaylightSavingTimeForDate:(NSDate *)aDate

Parameters

aDate

The date against which to test the receiver.

Return Value

YES if the receiver uses daylight savings time at *aDate*, otherwise NO.

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

See Also

- isDaylightSavingTime (page 16)
- daylightSavingTimeOffset (page 14)
- daylightSavingTimeOffsetForDate: (page 15)
- nextDaylightSavingTimeTransitionAfterDate: (page 19)

Declared In

NSTimeZone.h

isEqualToTimeZone:

Returns a Boolean value that indicates whether the receiver has the same name and data as another given time zone.

- (BOOL) is Equal To Time Zone: (NSTime Zone *) a Time Zone

Parameters

aTimeZone

The time zone to compare with the receiver.

Return Value

YES if *aTimeZone* and the receiver have the same name and data, otherwise NO.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSTimeZone.h

localizedName:locale:

Returns the name of the receiver localized for a given locale.

- (NSString *)localizedName:(NSTimeZoneNameStyle)style locale:(NSLocale *)locale

Parameters

style

The format style for the returned string.

locale

The locale for which to format the name.

Return Value The name of the receiver localized for *locale* using *style*.

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

Declared In NSTimeZone.h

name

Returns the geopolitical region ID that identifies the receiver.

- (NSString *)name

Return Value

The geopolitical region ID that identifies the receiver.

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

Declared In NSTimeZone.h

nextDaylightSavingTimeTransition

Returns the date of the next daylight saving time transition for the receiver.

- (NSDate *)nextDaylightSavingTimeTransition

Return Value

The date of the next (after the current instant) daylight saving time transition for the receiver.

Availability

Available in Mac OS X v10.5 and later.

See Also

- isDaylightSavingTime (page 16)
- isDaylightSavingTimeForDate: (page 17)
- nextDaylightSavingTimeTransitionAfterDate: (page 19)

Declared In

NSTimeZone.h

nextDaylightSavingTimeTransitionAfterDate:

Returns the next daylight saving time transition after a given date.

- (NSDate *)nextDaylightSavingTimeTransitionAfterDate:(NSDate *)aDate

Parameters

aDate

A date.

Return Value The next daylight saving time transition after *aDate*.

Availability

Available in Mac OS X v10.5 and later.

See Also

- isDaylightSavingTime (page 16)
- isDaylightSavingTimeForDate: (page 17)
- nextDaylightSavingTimeTransition (page 18)

Declared In

NSTimeZone.h

secondsFromGMT

Returns the current difference in seconds between the receiver and Greenwich Mean Time.

- (NSInteger)secondsFromGMT

Return Value

The current difference in seconds between the receiver and Greenwich Mean Time.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSTimeZone.h

secondsFromGMTForDate:

Returns the difference in seconds between the receiver and Greenwich Mean Time at a given date.

- (NSInteger)secondsFromGMTForDate:(NSDate *)aDate

Parameters

aDate

The date against which to test the receiver.

Return Value

The difference in seconds between the receiver and Greenwich Mean Time at aDate.

Discussion

The difference may be different from the current difference if the time zone changes its offset from GMT at different points in the year—for example, the U.S. time zones change with daylight savings time.

Availability

Available in Mac OS X v10.0 and later.

Declared In NSTimeZone.h

Constants

NSTimeZoneNameStyle

Defines a type for time zone name styles.

typedef NSInteger NSTimeZoneNameStyle;

Discussion See "Time Zone Name Styles" (page 20) for possible values.

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

Declared In NSTimeZone.h

Time Zone Name Styles

Specify styles for presenting time zone names.

```
enum {
    NSTimeZoneNameStyleStandard,
    NSTimeZoneNameStyleShortStandard,
    NSTimeZoneNameStyleDaylightSaving,
    NSTimeZoneNameStyleShortDaylightSaving
};
```

Constants

NSTimeZoneNameStyleStandard

Specifies a standard name style.

Available in Mac OS X v10.5 and later.

Declared in NSTimeZone.h.

 ${\tt NSTimeZoneNameStyleShortStandard}$

Specifies a short name style.

Available in Mac OS X v10.5 and later.

Declared in NSTimeZone.h.

NSTimeZoneNameStyleDaylightSaving

Specifies a daylight saving name style.

Available in Mac OS X v10.5 and later.

Declared in NSTimeZone.h.

NSTimeZoneNameStyleShortDaylightSaving

Specifies a short daylight saving name style.

Available in Mac OS X v10.5 and later.

Declared in NSTimeZone.h.

Declared In NSTimeZone.h

Notifications

NSSystemTimeZoneDidChangeNotification

Sent when the time zone changed.

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

Declared In NSTimeZone.h NSTimeZone Class Reference

Document Revision History

This table describes the changes to NSTimeZone Class Reference.

Date	Notes
2008-02-08	Enhanced the discussions of the methods systemTimeZone and resetSystemTimeZone.
2007-05-21	Updated to include API introduced in Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

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