

[Foundation](#) / ISO8601DateFormatter

Class

ISO8601DateFormatter

A formatter that converts between dates and their ISO 8601 string representations.

iOS 10.0+ | iPadOS 10.0+ | Mac Catalyst 13.1+ | macOS 10.12+ | tvOS 10.0+ | visionOS 1.0+ | watchOS 3.0+

```
class ISO8601DateFormatter
```

Overview

The [ISO8601DateFormatter](#) class generates and parses string representations of dates following the [ISO 8601](#) standard. Use this class to create ISO 8601 representations of dates and create dates from text strings in ISO 8601 format.

Tip

In Swift, you can use [Date.ISO8601FormatStyle](#) rather than [ISO8601DateFormatter](#). The [FormatStyle](#) API offers a declarative idiom for customizing the formatting of various types. Also, Foundation caches identical [FormatStyle](#) instances, so you don't need to pass them around your app, or risk wasting memory with duplicate formatters.

Topics

Configuring the Formatter

```
var formatOptions: ISO8601DateFormatter.Options
```

Options for generating and parsing ISO 8601 date representations. See [ISO8601DateFormatter.Options](#) for possible values.

```
var timeZone: TimeZone!
```

The time zone used to create and parse date representations. When unspecified, GMT is used.

Creating ISO 8601 Date Formatters

```
init()
```

Initializes an ISO 8601 date formatter with default format, time zone, and options.

Converting ISO 8601 Dates

```
func string(from: Date) -> String
```

Creates and returns an ISO 8601 formatted string representation of the specified date.

```
func date(from: String) -> Date?
```

Creates and returns a date object from the specified ISO 8601 formatted string representation.

```
class func string(from: Date, timeZone: TimeZone, formatOptions: ISO8601DateFormatter.Options) -> String
```

Creates a representation of the specified date with a given time zone and format options.

Constants

```
struct Options
```

Options used to generate and parse ISO 8601 date representations.

Relationships

Inherits From

Formatter

Conforms To

CVarArg
CustomDebugStringConvertible
CustomStringConvertible
Equatable
Hashable
NSCoding
NSCopying
NSObjectProtocol
NSSecureCoding

See Also

Dates and times

`class DateFormatter`

A formatter that converts between dates and their textual representations.

`class DateComponentsFormatter`

A formatter that creates string representations of quantities of time.

`class RelativeDateTimeFormatter`

A formatter that creates locale-aware string representations of a relative date or time.

`class DateIntervalFormatter`

A formatter that creates string representations of time intervals.