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Class

EKRecurrenceRule

A class that describes the pattern for a recurring event.

iOS 4.0+ | iPadOS 4.0+ | Mac Catalyst 13.1+ | macOS 10.8+ | visionOS 1.0+ | watchOS 2.0+

```
class EKRecurrenceRule
```

Mentioned in

 [Creating a recurring event](#)

Overview

After you create a recurrence rule, assign it to an event with the method of [EKEvent](#).

Recurrence rules can have an end, represented by an [EKRecurrenceEnd](#) object. The end can be based on a specific date or a maximum number of occurrences.

Note

It is currently not possible to directly modify an `EKRecurrenceRule` or any of its properties. This functionality is achieved by creating a new `EKRecurrenceRule` and setting an event or reminder to use the newly created rule.

Topics

Creating a Basic Recurrence Rule

`enum EKSpan`

An object that indicates whether modifications should apply to a single event or all future events of a recurring event.

`init(recurrenceWith: EKRecurrenceFrequency, interval: Int, end: EKRecurrenceEnd?)`

Initializes and returns a simple recurrence rule with a given frequency, interval, and end.

Creating a Complex Recurrence Rule

`init(recurrenceWith: EKRecurrenceFrequency, interval: Int, daysOfTheWeek: [EKRecurrenceDayOfWeek]?, daysOfTheMonth: [NSNumber]?, monthsOfTheYear: [NSNumber]?, weeksOfTheYear: [NSNumber]?, daysOfTheYear: [NSNumber]?, setPositions: [NSNumber]?, end: EKRecurrenceEnd?)`

Initializes and returns a recurrence rule with a given frequency and additional scheduling information.

Accessing Recurrence Rule Properties

`enum EKRecurrenceFrequency`

The frequency for recurrence rules.

`var calendarIdentifier: String`

The identifier for the recurrence rule's calendar.

`var recurrenceEnd: EKRecurrenceEnd?`

Indicates when the recurrence rule ends.

`var frequency: EKRecurrenceFrequency`

The frequency of the recurrence rule.

`var interval: Int`

Specifies how often the recurrence rule repeats over the unit of time indicated by its frequency.

`var firstDayOfTheWeek: Int`

Indicates which day of the week the recurrence rule treats as the first day of the week.

`var daysOfTheWeek: [EKRecurrenceDayOfWeek]?`

The days of the week associated with the recurrence rule, as an array of EKRecurrenceDayOfWeek objects.

`var daysOfTheMonth: [NSNumber]?`

The days of the month associated with the recurrence rule, as an array of `NSNumber` objects.

`var daysOfTheYear: [NSNumber]?`

The days of the year associated with the recurrence rule, as an array of `NSNumber` objects.

`var weeksOfTheYear: [NSNumber]?`

The weeks of the year associated with the recurrence rule, as an array of `NSNumber` objects.

`var monthsOfTheYear: [NSNumber]?`

The months of the year associated with the recurrence rule, as an array of `NSNumber` objects.

`var setPositions: [NSNumber]?`

An array of ordinal numbers that filters which recurrences to include in the recurrence rule's frequency.

~~`func EK_LOSE_FRACTIONAL_SECONDS_DO_NOT_USE()`~~

A deprecated function.

Deprecated

Relationships

Inherits From

`EKObject`

Conforms To

`CVarArg`

`CustomDebugStringConvertible`

`CustomStringConvertible`


`Equatable`

`Hashable`

`NSCopying`

See Also

Recurrence

-  [Creating a recurring event](#)
Set up an event or reminder that repeats.

`class` `EKRecurrenceDayOfWeek`
A class that represents the day of the week.

`class` `EKRecurrenceEnd`
A class that defines the end of a recurrence rule.