

UIDatePicker

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UIDatePicker?



Dedicated to selection of dates

- No protocols
- Even simpler than a UIPickerView

Event valueChanged handled

- Use addTarget

Customization

- Current date & time
- Minimal possible date & time
- Maximal possible date & time
- Appearance

Possible behaviors

Property datePickerMode

 Of type Mode

▶ time

06	10
07	11
08	12
09	13
10	14
11	15
12	16
13	17
14	18

Possible behaviors

Property datePickerMode

 Of type Mode

- ▶ time
- ▶ date

07	11
08	12
09	13
10	14
11	15
12	16
13	17
14	18

06	June	2014
10	July	2015
11	August	2016
12	September	2017
13	October	2018
14	November	2019
15	December	2020
16	January	2021
17	February	2022

Possible behaviors

Property datePickerMode

 Of type Mode

- ▶ time
- ▶ date
- ▶ dateAndTime (default)

06	10
07	11
08	12
09	13
10	14
11	15
12	16
13	17
14	18

10	July	2015
11	August	2016
12	September	2017
13	October	2018
14	November	2019
15	December	2020
16	January	2021
17	February	2022

Tue 9 Oct	06	10
Wed 10 Oct	07	11
Thu 11 Oct	08	12
Fri 12 Oct	09	13
Today	10	14
Sun 14 Oct	11	15
Mon 15 Oct	12	16
Tue 16 Oct	13	17
Wed 17 Oct	14	18

Possible behaviors

Property datePickerMode

 Of type Mode

- ▶ time
- ▶ date
- ▶ dateAndTime (default)
- ▶ countdownTimer

06	07	10
07	08	11
08	09	12
09	10	13
10	11	14
11	12	15
12	13	16
13	14	17
14	15	18

10	July	2015
11	August	2016
12	September	2017
13	October	2018
14	November	2019
15	December	2020
16	January	2021
17	February	2022

Wed 10 Oct	07	11
Thu 11 Oct	08	12
Fri 12 Oct	09	13
Today	10	14
Sun 14 Oct	11	15
Mon 15 Oct	12	16
Tue 16 Oct	13	17
Wed 17 Oct	14	18

57	
58	
59	
0	
0 hours	1 min
1	2
2	3
3	4
4	5

Date

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A class to manage dates

Creation

- ▶ Current date, `init()`
- ▶ With date interval from «now», `init(timeIntervalSinceNow:)`
- ▶ With date interval from another date, `init(timeInterval:since:)`
- ▶ With date interval from 1/1/2001 @ 0:00:00, `init(timeIntervalSinceReferenceDate:)`
- ▶ With date interval from 1/1/1970 @ 0:00:00, `init(timeIntervalSince1970:)`

Compute date intervals

- ▶ `timeIntervalSince(_:)`
- ▶ `timeIntervalSinceNow` (computed property)
- ▶ `timeIntervalSinceReferenceDate` (computed property)
- ▶ `timeIntervalSince1970` (computed property)

Temporal bounds (properties)

- ▶ `distantFuture`
- ▶ `distantPast`

Comparisons (overload of `==` and `<`)

Date

A class to manage dates

Creation

- ▶ Current date, `init()`
- ▶ With date interval from «now», `init(timeIntervalSinceNow:)`
- ▶ With date interval from another date, `init(timeInterval:since:)`
- ▶ With date interval from another date, `init(timeInterval:since:date:)`
- ▶ With date interval from another date, `init(timeInterval:since:date:options:)`
- ▶ With date interval from another date, `init(timeInterval:since:date:options:options2:)`



Objective-C?

NSDate with very similar methods
(longer names 🤖)

Compute date

- ▶ `timeIntervalSince(_:)`
- ▶ `timeIntervalSinceNow` (computed property)
- ▶ `timeIntervalSinceReferenceDate` (computer property)
- ▶ `timeIntervalSince1970` (computed property)

Temporal bounds (properties)

- ▶ `distantFuture`
- ▶ `distantPast`

Comparisons (overload of `==` and `<`)

As a conclusion...

A useful mechanism

- Very standard!
- Use it!

▶ No need to reinvent the wheel...

