

① # 8 Date & Time in javascript [7:41:00] 1/1/

Date & Time in javascript

- Date Method (get and set)
- Time Method (get and set)

1 January 1970

★★ a) Date Method

GMT+530 (India Standard Time)

GMT (Greenwich Mean Time) shows
30 minutes.

“ java50

- javascript Date object represent a single moment in time in a platform-independent format.
- Date objects contain a Number that represent milliseconds since 1 January 1970 UTC.

Creating Date Objects

There are 4 ways to create a new object.

1) new Date

2) new Date (year, month, day, hour, minutes, second, milliseconds).

// it take 7 arguments.

3) new Date (milliseconds)

// we cannot avoid month section.

4) new Date (date string)

②

1) new Date()

Date objects are created with the new Date() constructor.

```
let currDate = new Date();  
console.log(currDate);           → Standard time zone  
console.log(new Date().toLocaleString()); { 09/11/2019, 1:25:01 PM  
console.log(new Date().toString()); { Wed Sept 11 2019  
                                         13:25:01 GMT+0700
```



Date.now()

Returns the numeric value corresponding to the current time - the number of milliseconds elapsed since January 1, 1970 00:00:00 UTC

console.log(Date.now()) ⇒ output show milliseconds in 1 January 1970 to present.

2) new Date(year, month, ...)

- The 7 numbers specify year, month, day, hour, minute, second, and millisecond (in that order)

Note: • javascript counts months from 0 to 11.

// January is 0. December is 11.

- and must be month format Date(2001, 0)

③

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```
var d = new Date (2020, 11, 24, 10, 33, 30, 0);
```

```
console.log (d.toLocal String ());
```

3. Date (Millisecond)

create a new date object as zero time plus millisecond.

```
var d = new Date (16095743143) ⇒ time
```

```
var d = new Date (0) ⇒ 01/01/1970 5:30:00
```

1. Date Methods (Get)

```
⇒ const curDate = new Date ()
```

```
// how to get the individual date.
```

- a) console.log (curDate.toLocal String ());
- b> " " " • to get Full Year ());
- c> " " " • get Month ()); // - 0 - 11 year to dec
- d> " " " • get Date ());
- e> " " " • get Day ());

a) present time - 02/09/2022 , 1:34:56 PM

b) 2022 Year

c) 08 Month September

d) 2 Date

e) 5 Day Friday

①

Date() → (Set)

⇒ how to set the individual date

millisecond

console.log (curDate.setFullYear(2022));

// The setFullYear() method can optionally set month and day.

millisecond

console.log (curDate.setFullYear(2022, 10, 5));

millisecond

console.log (curDate.setMonth(10)); // 0-11 Jan to Dec

console.log (curDate.set(5));

- present time

console.log (curDate.toLocalString());

All same

2) Time Methods (get)

const curTime = new Date();

⇒ how to get the individual Time

millisecond

1) console.log (curTime.getTime());

// getTime() method returns the number of millisecond.

// 01 January 1970

★

21

2) console.log (curTime.getHours());

// return getHours() method returns on number (0-23)

40

3) console.log (curTime.getMinutes());

11

4) console.log (curTime.getSeconds());

581

5) console.log (curTime.getMilliseconds());

5

Time (set)

let

⇒ to how to set the individual Time

let curTime = new Date();

// console.log (curTime.setTime ());

console.log (curTime.setHours (5));

console.log (curTime.setMinutes (5));

console.log (curTime.setSeconds (5));

console.log (curTime.setMilliseconds (5));

ms
millisecond

13 ⇒ challenge Time

new Date().toLocaleTimeString ();

// 11:18:48 AM

new Date().toLocaleDateString ();

// 11/16/2015

new Date().toLocaleString ();

11/16/2015, 11:18:48 PM

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