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Day 6: JavaScript Dates ■



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Dates in JavaScript

Date

A JavaScript Date instance represents a single moment in time based on the number of milliseconds elapsed since $\bf 1$ January, $\bf 1970$ UTC.

Creating Date Instance

There are four constructors we can use to create a Date object, defined below.

1. Using new Date()

The *default constructor* creates a JavaScript *Date* object for the current date and time (according to your system settings).

2. Using new Date(value)

This constructor has a parameter, *value*, which is an integer representing the number of milliseconds elapsed since **1 January 1970 00:00:00 UTC** (this is a Unix Epoch, though you should keep in mind that most Unix timestamp functions count in seconds).

3. Using new Date(dateString)

This constructor has a parameter, *dateString*, which is a String describing a date. The *dateString* must be in a format recognized by the Date.parse() function, such as MM/DD/YYYY or Month Day, Year. For example, 01/01/1980 and Jan 1, 1980 are both strings that can be successfully parsed using the *parse* function.

4. Using new Date(year, month, day, hour, minutes, seconds, milliseconds)

This constructor has the following parameters:

- $\it year$: An integer denoting the calendar year. Values from 0 through 99 map to the years 1900 through 1999.
- month: A one or two digit integer denoting the zero-indexed month. This means that 0 denotes January and 11 denotes December.
- day: Optional. An integer denoting the specific day number within the calendar month.

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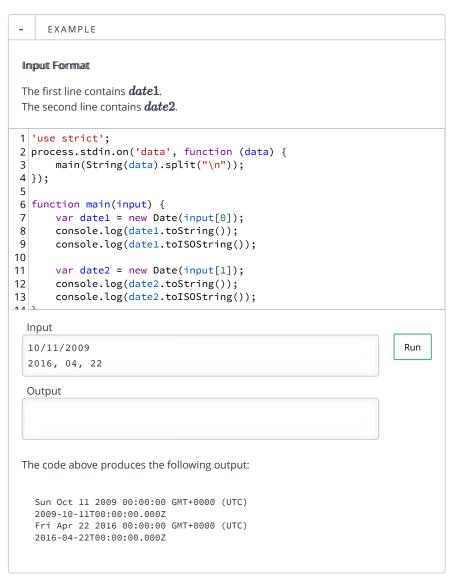
Date

Creating Date Instance

Date get Methods



- hour: Optional. An integer denoting the hour of the day.
- *minute*: Optional. An integer denoting the minute segment of a time.
- **second**: Optional. An integer denoting the second segment of a time.
- millisecond: Optional. An integer denoting the millisecond segment of a time.



Date get Methods

1. Date.getTime()

Get the time in milliseconds elapsed since January 1, 1970.

2. Date.getFullYear()

Get the four-digit year (yyyy).

3. Date.getMonth()

Get the *Date* object's month as a zero-indexed number (0-11).

4. Date.getDate()

Get the *Date* object's day as a number (1 - 31).

5. Date.getDay()

Get the ${\it Date}$ object's weekday as a number (${\it 0-6}$).

6. Date.getHours()

Get the Date object's hour ($\mathbf{0-23}$).

7. Date.getMinutes()

Get the $\it Date$ object's minutes ($\it 0-59$)

8. Date.getSeconds()

Get the ${\it Date}$ object's seconds (${\it 0-59}$).

9. Date.getMilliseconds()

Get the *Date* object's milliseconds ($\mathbf{0}-\mathbf{999}$).

-	EXAMPLE
Cl	ick <i>Run</i> below to see this in code.
Nanut Farmet	
Imput Format	
A single date string in a format recognized by Date.parse().	
	'use strict';
2	<pre>process.stdin.on('data', function (data) { main(String(data));</pre>
4	<pre>});</pre>
5	/**** Ignore above this line. ****/
1 1	function main(input) {
8	<pre>let date = new Date(input);</pre>
10	<pre>console.log("date: " + date);</pre>
11	<pre>console.log("date.getDate(): " + date.getDate());</pre>
12	<pre>console.log("date.getDay(): " + date.getDay()); console.log("date.getFullYear(): " + date.getFullYear());</pre>
14	<pre>console.log("date.getHours(): " + date.getHours());</pre>
15 16	<pre>console.log("date.getMilliseconds(): " + date.getMilliseconds() console.log("date.getMinutes(): " + date.getMinutes());</pre>
17	console.log("date.getMonth(): " + date.getMonth()); console.log("date.getMonth(): " + date.getMonth());
18	<pre>console.log("date.getSeconds(): " + date.getSeconds());</pre>
19	<pre>console.log("date.getTime(): " + date.getTime()); console.log("date.getYear(): " + date.getYear());</pre>
21	<pre>console.log("date.toDateString(): " + date.toDateString());</pre>
	nput
E	Peb 3, 1987 12:34:56:789
	Dutput
The code above produces the following output:	
	data. Tua Fab 02 1007 12-24-56 (MT-0000 (MTC)
	date: Tue Feb 03 1987 12:34:56 GMT+0000 (UTC) date.getDate(): 3
	<pre>date.getDay(): 2 date.getFullYear(): 1987</pre>
	autorgot. action () 1 2001

```
date.getHours(): 12
date.getMilliseconds(): 789
date.getMinutes(): 34
date.getMonth(): 1
date.getSeconds(): 56
date.getTime(): 539354096789
date.getYear(): 87
date.toDateString(): Tue Feb 03 1987

You could also create a date object for the date given as input using the following date constructor and arguments:

// Date(year, month, day, hour, minutes, seconds, milliseconds)
let date = new Date(1987, 1, 3, 12, 34, 56, 789);
```

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