



# **Web Development Programming Language**

By: Dr. Galal AL-Marzoqi

## JavaScript Methods

These methods can be used for getting information from a date object

Method	Description
getFullYear()	Get the <b>year</b> as a four digit number (yyyy)
getMonth()	Get the <b>month</b> as a number (0-11)
getDate()	Get the <b>day</b> as a number (1-31)
getHours()	Get the <b>hour</b> (0-23)
getMinutes()	Get the <b>minute</b> (0-59)
getSeconds()	Get the <b>second</b> (0-59)
getMilliseconds()	Get the <b>millisecond</b> (0-999)
getTime()	Get the time (milliseconds since January 1, 1970)
getDay()	Get the weekday as a number (0-6)

### 1. The getFullYear() Method

The **getFullYear()** method returns the year of a date as a four number:

✓ Example in getFullYear Method	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getFullYear()&lt;/h2&gt; &lt;p&gt;getFullYear() method returns the current year: &lt;/p&gt; &lt;script&gt; var d = new Date(); document.write (d.getFullYear()); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<pre>JavaScript getFullYear()  getFullYear() method returns the current year: 2019</pre>

## 2. The getMonth() Method

The `getMonth()` method returns the month of a date as a number (0-11):

✓ Example in getMonth() Method	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getMonth()&lt;/h2&gt; &lt;p&gt;The getMonth() method returns the month of a date as a number from 0 to 11.&lt;/p&gt; &lt;p&gt;To get the correct month, you must add 1:&lt;/p&gt; &lt;script&gt; var d = new Date(); document.write(d.getMonth() + 1); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>JavaScript <code>getMonth()</code></p> <p>The <code>getMonth()</code> method returns the month of a date as a number from 0 to 11.</p> <p>To get the correct month, you must add 1:</p> <p>11</p>
getMonth() Method by array	
Example in getMonth() Method	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getMonth()&lt;/h2&gt; &lt;p&gt;The getMonth() method returns the month as a number:&lt;/p&gt; &lt;p&gt;You can use an array to display the name of the month:&lt;/p&gt; &lt;script&gt; var d = new Date(); var months = ["January","February","March", "April","May","June","July","August","September", "October","November","December"]; document.write(months[d.getMonth()]); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>JavaScript <code>getMonth()</code></p> <p>The <code>getMonth()</code> method returns the month as a number:</p> <p>You can use an array to display the name of the month:</p> <p>November</p>

## 3. The getDate() Method

The `getDate()` method returns the day of a date as a number (1-31):

Example in getDate() Method	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getDate()&lt;/h2&gt; &lt;p&gt;The getDate() method returns the day of a date as a number (1-31):&lt;/p&gt; &lt;script&gt; var d = new Date(); document.write(d.getDate()); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>JavaScript <code>getDate()</code></p> <p>The <code>getDate()</code> method returns the day of a date as a number (1-31):</p> <p>26</p>

#### 4. The getHours() Method

The `getHours()` method returns the hours of a date as a number (0-23):

Example in getHours() Method	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getHours()&lt;/h2&gt; &lt;p&gt;The getHours() method returns the hours of a date as a number (0-23):&lt;/p&gt; &lt;script&gt; var d = new Date(); document.write(d.getHours()); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>JavaScript <code>getHours()</code></p> <p>The <code>getHours()</code> method returns the hours of a date as a number (0-23):</p> <p>13</p>

#### 5. The getMinutes() Method

The `getMinutes()` method returns the minutes of a date as a number (0-59):

Example in getMinutes() Method	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getMinutes()&lt;/h2&gt; &lt;p&gt;The getMinutes() method returns the minutes of a date as a number (0-59):&lt;/p&gt; &lt;script&gt; var d = new Date(); document.write(d.getMinutes()); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>JavaScript <code>getMinutes()</code></p> <p>The <code>getMinutes()</code> method returns the minutes of a date as a number (0-59):</p> <p>21</p>

#### 6. The getSeconds() Method

The `getSeconds()` method returns the seconds of a date as a number (0-59):

Example in getSeconds() Method	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getSeconds()&lt;/h2&gt; &lt;p&gt;The getSeconds() method returns the seconds of a date as a number (0-59):&lt;/p&gt; &lt;script&gt; var d = new Date(); document.write(d.getSeconds()); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>JavaScript <code>getSeconds()</code></p> <p>The <code>getSeconds()</code> method returns the seconds of a date as a number (0-59):</p> <p>29</p>

## 7. The getMilliseconds() Method

The `getMilliseconds()` method returns the milliseconds of a date as a number (0-999):

Example in getMilliseconds() Method	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getMilliseconds()&lt;/h2&gt; &lt;p&gt;The getMilliseconds() method returns the milliseconds of a date as a number (0-999):&lt;/p&gt; &lt;script&gt; var d = new Date(); document.write(d.getMilliseconds()); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>JavaScript <code>getMilliseconds()</code></p> <p>The <code>getMilliseconds()</code> method returns the milliseconds of a date as a number (0-999):</p> <p>467</p>

## 8. The getDay() Method

The `getDay()` method returns the weekday of a date as a number (0-6):

Example in getDay() Method	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getDay()&lt;/h2&gt; &lt;p&gt;The getDay() method returns the weekday as a number:&lt;/p&gt; &lt;script&gt; var d = new Date(); document.write(d.getDay()); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>JavaScript <code>getDay()</code></p> <p>The <code>getDay()</code> method returns the weekday as a number:</p> <p>2</p>

In JavaScript, the first day of the week (0) means "Sunday", even if some countries in the world consider the first day of the week to be "Monday"

You can use an array of names, and `getDay()` to return the weekday as a name:

Example in getDay() Method by array	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;h2&gt;JavaScript getDay()&lt;/h2&gt; &lt;p&gt;You can use an array to display the name of the weekday:&lt;/p&gt; &lt;script&gt; var d = new Date(); var days = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"]; document.write(days[d.getDay()]); &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>JavaScript <code>getDay()</code></p> <p>You can use an array to display the name of the weekday:</p> <p>Tuesday</p>

Example	Result
<pre> &lt;html&gt; &lt;body&gt; &lt;h2&gt;Hours, Date, months, Year&lt;/h2&gt; &lt;script&gt;  var d = new Date();  var    days    =    ["Sunday","Monday","Tuesday", "Wednesday","Thursday", "Friday","Saturday"];  var months = ["January","February","March", "April","May","June","July","August","September", "October","November","December"];  document.write(d.getHours(), " ", d.getDate(), " ", days[d.getDay()], " ", months[d.getMonth()], " ", d.getFullYear());  &lt;/script&gt; &lt;/body&gt; &lt;/html&gt; </pre>	<p><b>Hours, Date, months, Year</b></p> <p>14 ,26 Tuesday ,November ,2019</p>

## JavaScript Functions

A JavaScript **function** is a block of code designed to perform a particular task. A JavaScript function is executed when "something" invokes it (calls it). Also, it's defined with the **function** keyword, followed by a name, followed by parentheses (). Function names can contain letters, digits, underscores, and dollar signs (same rules as variables). The parentheses may include parameter names separated by commas: (**parameter1, parameter2, ...**). The code to be executed, by the function, is placed inside curly brackets: {}.

### Syntax

```
function name() {  
    // code to be executed  
}
```

Function parameters are listed inside the parentheses () in the function definition. Function arguments are the values received by the function when it is invoked. Inside the function, the arguments (the parameters) behave as local variables.

Example	Result
<pre>&lt;html&gt; &lt;body&gt; &lt;p&gt;Click the button to display the date.&lt;/p&gt; &lt;button onclick=" <b>displayDate()</b> "&gt;The time is?&lt;/button&gt; &lt;script&gt; function <b>displayDate()</b> {     document.write(innerHTML = Date());     alert ("Show date"); } &lt;/script&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>Tue Nov 26 2019 22:21:26 GMT-0800 توقيت المحيط الهادي الرسمي</p>