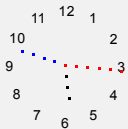


JavaScript Timing Events

[< Previous](#)[Next >](#)

JavaScript can be executed in time-intervals.

This is called timing events.

Timing Events

The window object allows execution of code at specified time intervals.

These time intervals are called timing events.

The two key methods to use with JavaScript are:

- `setTimeout(function, milliseconds)`
Executes a function, after waiting a specified number of milliseconds.
- `setInterval(function, milliseconds)`
Same as `setTimeout()`, but repeats the execution of the function continuously.

The `setTimeout()` and `setInterval()` are both methods of the HTML DOM Window object.

The `setTimeout()` Method

```
window.setTimeout(function, milliseconds);
```

The **`window.setTimeout()`** method can be written without the window prefix.

The first parameter is a function to be executed.

The second parameter indicates the number of milliseconds before execution.

Example

Click a button. Wait 3 seconds, and the page will alert "Hello":

```
<button onclick="setTimeout(myFunction, 3000)">Try it</button>

<script>
function myFunction() {
  alert('Hello');
}
</script>
```

[Try it Yourself »](#)

Get Certified in HTML, CSS, and JavaScript

[Get Certified >](#)

How to Stop the Execution?

The `clearTimeout()` method stops the execution of the function specified in `setTimeout()`.

```
window.clearTimeout(timeoutVariable)
```

The **`window.clearTimeout()`** method can be written without the window prefix.

The `clearTimeout()` method uses the variable returned from `setTimeout()`:

```
myVar = setTimeout(function, milliseconds);
clearTimeout(myVar);
```

If the function has not already been executed, you can stop the execution by calling the `clearTimeout()` method:

Example

Same example as above, but with an added "Stop" button:

```
<button onclick="myVar = setTimeout(myFunction, 3000)">Try it</button>

<button onclick="clearTimeout(myVar)">Stop it</button>
```

[Try it Yourself »](#)

The setInterval() Method

The `setInterval()` method repeats a given function at every given time-interval.

```
window.setInterval(function, milliseconds);
```

The **window.setInterval()** method can be written without the window prefix.

The first parameter is the function to be executed.

The second parameter indicates the length of the time-interval between each execution.

This example executes a function called "myTimer" once every second (like a digital watch).

Example

Display the current time:

```
var myVar = setInterval(myTimer, 1000);

function myTimer() {
  var d = new Date();
  document.getElementById("demo").innerHTML = d.toLocaleTimeString();
}
```

Try it Yourself »

There are 1000 milliseconds in one second.

How to Stop the Execution?

The clearInterval() method stops the executions of the function specified in the setInterval() method.

```
window.clearInterval(timerVariable)
```

The **window.clearInterval()** method can be written without the window prefix.

The clearInterval() method uses the variable returned from setInterval():

```
myVar = setInterval(function, milliseconds);
clearInterval(myVar);
```

Example

Same example as above, but we have added a "Stop time" button:

```
<p id="demo"></p>

<button onclick="clearInterval(myVar)">Stop time</button>

<script>
var myVar = setInterval(myTimer, 1000);
function myTimer() {
  var d = new Date();
  document.getElementById("demo").innerHTML = d.toLocaleTimeString();
}
```

```
}  
</script>
```

[Try it Yourself »](#)

More Examples

[Another simple timing](#)[A clock created with a timing event](#)[< Previous](#)[Next >](#)

COLOR PICKER



HOW TO

Tabs