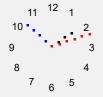
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# JavaScript Timing Events



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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 »

# 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:

```
<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 »

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#### A clock created with a timing event



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