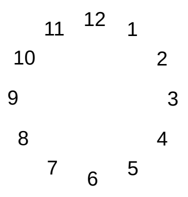
JavaScript Timing Events

❮ 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.

```
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);
```

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:

```
setInterval(myTimer, 1000);

function myTimer() {
```

```
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()`:

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

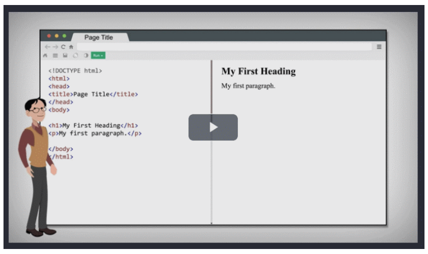
Try it Yourself »

More Examples

Another simple timing

A clock created with a timing event

❮ Previous Next ❯



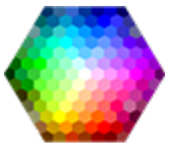
```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>My First Heading</h1>
<p>My first paragraph.</p>

</body>
</html>
```

My First Heading

My first paragraph.



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