

Node.js - Global Objects

Node.js global objects are global in nature and they are available in all modules. We do not need to include these objects in our application, rather we can use them directly. These objects are modules, functions, strings and object itself as explained below.

__filename

The **__filename** represents the filename of the code being executed. This is the resolved absolute path of this code file. For a main program, this is not necessarily the same filename used in the command line. The value inside a module is the path to that module file.

Example

Create a js file named main.js with the following code –

[Live Demo](#)

```
// Let's try to print the value of __filename  
  
console.log( __filename );
```

Now run the main.js to see the result –

```
$ node main.js
```

Based on the location of your program, it will print the main file name as follows –

```
/web/com/1427091028_21099/main.js
```

__dirname

The **__dirname** represents the name of the directory that the currently executing script resides in.

Example

Create a js file named main.js with the following code –

Live Demo

```
// Let's try to print the value of __dirname  
  
console.log( __dirname );
```

Now run the main.js to see the result –

```
$ node main.js
```

Based on the location of your program, it will print current directory name as follows –

```
/web/com/1427091028_21099
```

setTimeout(cb, ms)

The **setTimeout(cb, ms)** global function is used to run callback cb after at least ms milliseconds. The actual delay depends on external factors like OS timer granularity and system load. A timer cannot span more than 24.8 days.

This function returns an opaque value that represents the timer which can be used to clear the timer.

Example

Create a js file named main.js with the following code –

Live Demo

```
function printHello() {  
    console.log( "Hello, World!" );  
}  
  
// Now call above function after 2 seconds  
setTimeout(printHello, 2000);
```

Now run the main.js to see the result –

```
$ node main.js
```

Verify the output is printed after a little delay.

```
Hello, World!
```

clearTimeout(t)

The **clearTimeout(t)** global function is used to stop a timer that was previously created with `setTimeout()`. Here **t** is the timer returned by the `setTimeout()` function.

Example

Create a js file named `main.js` with the following code –

[Live Demo](#)

```
function printHello() {
  console.log( "Hello, World! ");
}

// Now call above function after 2 seconds
var t = setTimeout(printHello, 2000);

// Now clear the timer
clearTimeout(t);
```

Now run the `main.js` to see the result –

```
$ node main.js
```

Verify the output where you will not find anything printed.

setInterval(cb, ms)

The **setInterval(cb, ms)** global function is used to run callback `cb` repeatedly after at least `ms` milliseconds. The actual delay depends on external factors like OS timer granularity and system load. A timer cannot span more than 24.8 days.

This function returns an opaque value that represents the timer which can be used to clear the timer using the function **clearInterval(t)**.

Example

Create a js file named `main.js` with the following code –

Live Demo

```
function printHello() {  
  console.log( "Hello, World!");  
}  
  
// Now call above function after 2 seconds  
setInterval(printHello, 2000);
```

Now run the main.js to see the result –

```
$ node main.js
```

The above program will execute printHello() after every 2 second. Due to system limitation.

Global Objects

The following table provides a list of other objects which we use frequently in our applications. For a more detail, you can refer to the official documentation.

Sr.No.	Module Name & Description
1	Console Used to print information on stdout and stderr.
2	Process Used to get information on current process. Provides multiple events related to process activities.

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