50 drops of JavaScript

50 useful, powerful, joyful JS functions



Table of Contents

Welcome to 50 drops of JavaScript	. 3
The reason why	
Requirements	. 4
Continuous release	
Where to find this book	. 4
Thanks to	. 5
License	. 5
System	. 6
Info from CPU: os.cpus()	. 7
Info from Operating System: os.version()	. 8

Welcome to 50 drops of JavaScript

The reason why

This book collects 50 useful, unknown, underrated JavaScript functions or stuff discovered, used, and learned during JavaScript daily use.

Using JavaScript frameworks/libraries daily (like React, Vue, Angular), sometimes the perception of the power of the language and the basic functionalities provided by the JavaScript core could be lost. I see that usually, I used to look at the framework documentation or look for a package in Npm for the system, array, and string functions instead of using core functionalities provided by the language.

While I wrote this book, I also wrote some scripts to better understand the behavior of the functions. You can find these examples here:

https://github.com/roberto-butti/50-drops-of-javascript in the examples directory.

Requirements

The code used in this book is tested with **NodeJs version 18 (LTS)**. Node.js is an open-source, cross-platform JavaScript runtime environment, and you can obtain Node.js on the official https://nodejs.org/ website.

Continuous release

I was thinking to print this book, but I think that is not so eco-friendly and a book about development could be improved daily in terms of spellchecking and the content and examples. So, I expect to adopt the same approach in the software with the CI/CD, with a continuous release of the book.

Releases:

• (WIP) release 1.0.0 (WIP not yet released): writing...;

So, if you have any feedback, or you want to suggest some corrections, feel free to open an issue here: https://github.com/roberto-butti/50-drops-of-javascript/issues

Where to find this book

This book is available for download for free here: https://github.com/roberto-butti/50-drops-of-javascript/

Thanks to...

Thanks to all the Open Source community.

License

"50 drops of JavaScript" (c) by Roberto Butti

"50 drops of JavaScript" is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License.

You should have received a copy of the license along with this work. If not, see http://creativecommons.org/licenses/by-nc-sa/4.0/.

System

The chapter will cover functions about "system" functionalities (for example how to retrieve the operating system version).

Info from CPU: os.cpus()

The os module allows you to retrieve some relevant information about the environment used for running your *Node.js* script or application.

```
const os = require('os')
const cpus = os.cpus()
```

The os module provides you with some methods. One of them is the <code>cpus()</code> that returns the list of CPUs available in your environment. For each element of the list (each element is one CPU), you have the <code>model</code> attribute that has the CPU model name (for example "Apple M1 Pro") and the <code>speed</code> attribute, an integer for showing the speed of the CPU. Then you have also <code>times</code> attribute for the times (in milliseconds) that the CPU has spent in these modes: <code>user</code>, <code>nice</code> (valid only for Posix systems, in Windows this value is always 0), <code>sys</code>, <code>idle</code>, <code>irg</code>. So, you can walk through the list of CPUs:

```
cpus.forEach(cpu => {
  console.info(cpu.model + ' speed: ' + cpu.speed)
  console.table(cpu.times)
})
```

Info from Operating System: os.version()

The os module has the version()` method to return the version of the Operating System in use.

```
const os = require('os')
const version = os.version()
```

The version() method returns a string with the full name of the Operating System version, like this:

```
Darwin Kernel Version 21.6.0: Wed Aug 10 14:28:23 PDT 2022; root:xnu-8020.141.5~2/RELEASE_ARM64_T6000
```