



(/category/javascript)

JavaScript module to run both in a browser and in Node.js

Node.js (/search/Node.js)

One of the selling points of using Node.js to write the back-end of your application is that in that case you use the same programming language in the back-end as you use in the front-end. Then it is easy to share code between the two.

The question then, how can one write a library in JavaScript that can be used both in Node.js and in the web client.

This is a simple library with two methods: `add` and `div`, and an attribute `version`. It uses `this` which refers to the Window object when running in the browser and to the `global` object when running under Node.js

`examples/js/node_and_web/calc.js`

```
1. (function(){
2.     "use strict";
3.
4.     this.Calc = function () {
5.         return Object.freeze({
6.             add: function(x, y) { return x + y; },
7.             div: function(x, y) { return x / y; },
8.             version: 0.01,
9.         });
10.
11.     }();
12.
13. }).call(this);
14.
```

We can see it working in Node:

examples/js/node_and_web/calc_test_node.js

```
1. console.log('calc_test_node');
2. var c = require('./calc');
3. console.log(c.Calc.add(2, 5)); // 7
4. console.log(c.Calc.div(8, 2)); // 4
5. console.log(c.Calc.version);   // 0.01
6.
```

```
$ node calc_test_node.js
calc_test_node
7
4
0.01
```

We can see it working in the web as well. For that we need to write some JavaScript code:

examples/js/node_and_web/calc_test_web.js

```
1. console.log('calc_test_web');  
2. console.log(Calc.add(2, 3));    // 5  
3. console.log(Calc.div(14, 2));  // 7  
4. console.log(Calc.version);     // 0.01  
5.
```

and then we have to load first the `calc.js` and then the JavaScript file that uses the `Calc` object:

examples/js/node_and_web/calc_test_web.html

```
1. <script src="calc.js"></script>  
2. <script src="calc_test_web.js"></script>
```

Try! (/try/examples/js/node_and_web/calc_test_web.html)

If you click on "Try" you will see it working. Just remember you need to open the JavaScript console to see anything.



Gabor Szabo

(<https://plus.google.com/102810219707784087582?rel=author>)

Comments

In the comments, please wrap your code snippets within `<pre>` `</pre>` tags and use spaces for indentation.

2 Comments

Code Maven

1 Login ▾

♥ Recommend

🔗 Share

Sort by Best ▾



Join the discussion...

LOG IN WITH

OR SIGN UP WITH DISQUS ?

Name



Bitcoin the rich • a year ago

how to execute in digitalocean web server


^ | v • Reply • Share ›



Bitcoin the rich • a year ago

how to run in web site

^ | v • Reply • Share ›

✉ Subscribe  Add Disqus to your siteAdd DisqusAdd  Disqus' Privacy PolicyPrivacy PolicyPrivacy

Author: Gabor Szabo



Gabor who runs the Code Maven site helps companies set up **test automation**, CI/CD **Continuous Integration** and **Continuous Deployment** and other **DevOps** related systems. Gabor can help your team improve the development speed and reduce the risk of bugs.

He is also the author of a number of eBooks (<https://leanpub.com/u/szabgab>).

Contact Gabor (<https://szabgab.com/contact.html>) if you'd like to hire his services.

If you would like to support his freely available work, you can do it via Patreon (<https://www.patreon.com/szabgab>).



SSD Virtual Servers

\$5 /mo. **20GB** SSD Disk **512MB** Memory

GET STARTED ➔

(<http://perlmaven.com/digitalocean>)