

# power-assert in browser



<http://azu.github.io/power-assert-demo/>

Editor

```
1 describe('Array', function () {
2   beforeEach(function () {
3     this.ary = [1, 2, 3];
4   });
5   describe('#indexOf()', function () {
6     it('should return index when the value is present', function () {
7       var zero = 0, two = 2;
8       assert(this.ary.indexOf(zero) === two);
9     });
10    it('should return -1 when the value is not present', function () {
11      {
12        var minusOne = -1, two = 2;
13        assert.ok(this.ary.indexOf(two) === minusOne, 'THIS IS AN
14        ASSERTION MESSAGE');
15      }
16    });
17  });
18  describe('String.slice()', function () {
19    it('extracts a section of a string and returns a new string',
20    function () {
21      var str1 = "The morning is upon us.";
22      var str2 = str1.slice(4, -2);
23      assert(str1 === str2);
24    });
25  });
26});
```

Run Tests

CodeMirror

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Array

#indexOf()

✖ should return index when the value is present

# at line: 8

assert(this.ary.indexOf(zero) === two)

|         |    |   |  |       |
|---------|----|---|--|-------|
|         |    |   |  |       |
|         |    |   |  | 2     |
|         | -1 | 0 |  | false |
| [1,2,3] |    |   |  |       |

[number] two

=> 2

[number] this.ary.indexOf(zero)

=> -1

AssertionError: false == true

at Decorator.concreteAssert (http://azu.github.io/power-assert-demo/bower\_components/power-assert/build/power-assert.js:1607:21)

at http://azu.github.io/power-assert-demo/bower\_components/power-assert/build/power-assert.js:1529:26

✖ should return -1 when the value is not present

THIS IS AN ASSERTION MESSAGE # at line: 12

assert.ok(this.ary.indexOf(two) === minusOne, 'THIS IS AN ASSERTION MESSAGE')

|         |   |   |  |       |
|---------|---|---|--|-------|
|         |   |   |  |       |
|         |   |   |  | -1    |
|         | 1 | 2 |  | false |
| [1,2,3] |   |   |  |       |

[number] minusOne

=> -1

[number] this.ary.indexOf(two)

=> 1

AssertionError: THIS IS AN ASSERTION MESSAGE

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# Editor - CodeMirror

→ CodeMirror

- <http://codemirror.net/>

power-assert

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Run Tests

## Array

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|---------|----|---|--|-------|
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# power-assert transform

- `espower-source`
- <https://github.com/twada/espower-source>
- Code -> (Power-asserized) Code

Test Runner



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Run tests

## Mocha

Array

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```
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| | | 2
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[1,2,3]
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[number] this.ary.indexOf(zero)

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AssertionError: false == true

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```
| | | |
| | | -1
| 1 2 false
[1,2,3]
```

[number] minusOne

=> -1

[number] this.ary.indexOf(two)

=> 1

AssertionError: THIS IS AN ASSERTION MESSAGE

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# Test in iframe

- iframe's srcdoc attribute
  - `embed <html> . . . <script>assert(true)</script> . . . </html>`
- Mocha
- <http://visionmedia.github.io/mocha/>

ractive.js

```
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  | | | | 2
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[1,2,3]
```

[number] two

=> 2

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```

```
  | | | | |
  | | | | -1
  | | | | false
[1,2,3]
```

[number] minusOne

=> -1

[number] this.ary.indexOf(two)

=> 1

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Component Manager = ractive.js

# reactive component

- Editor as Component
- Test Runner as Component
- Component  $\leftrightarrow$  Component

# ractive event

→ Cool Observers

→ <http://docs.ractivejs.org/latest/observers>

# おわり

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<https://github.com/azu/power-assert-demo>