
Lodash

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Agenda

- Introduction
- Installation
- Common functions
- Notes

Introduction

- A modern JavaScript utility library delivering modularity, performance, & extras.
- Current version v4.0.0
- Pure Javascript
- Environment: Browser & NodeJS
- Tested in Chrome 46-47, Firefox 42-43, IE 9-11, Edge 13, Safari 8-9, Node.js 0.10.x, 0.12.x, 4.x, & 5.x, & PhantomJS 1.9.8.



14,078



1,265

Installation

- Browser

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/lodash.js/4.0.0/lodash.min.js" />
```

- npm

```
npm i lodash
```

- Bower

```
bower install lodash
```

Usage

- Nodejs

```
var _ = require('lodash');
```

- Browser

Using global variable `_`

Common functions

- Many functions belong to categories
- Array
- Collection
- Date
- Function
- Lang
- Math
- Number
- Object
- Seq
- String
- Util

Common functions

1. Validate data type

`_.isArray`
`_.isBoolean`
`_.isDate`
`_.isEmpty`
`_.isFunction`
`_.isInteger`
`_.isNaN`
`_.isNil`
`_.isNull`
`_.isNumber`
`_.isObject`
`_.isString`
`_.isUndefined`

```
_.isArray([1, 2, 3]);  
// → true  
  
_.isBoolean(false);  
// → true  
  
_.isBoolean(null);  
// → false  
  
_.isNumber('3');  
// → false  
  
_.isObject({});  
// → true
```

Common functions

2. Comparison

`_.isEqual`
`_.isEqualWith`
`_.isMatch`
`_.isMatchWith`
`_.lt`
`_.lte`
`_.eq`
`_.gt`
`_.gte`

```
var object = { 'user': 'fred' };
var other = { 'user': 'fred' };

_.eq(object, object);
// → true

_.eq(object, other);
// → false

_.isEqual(object, other);
// → true

var object = { 'user': 'fred', 'age': 40 };

_.isMatch(object, { 'age': 40 });
// → true
```


Common functions

3. Searching

- _.findIndex
- _.findLastIndex
- _.indexOf
- _.lastIndexOf
- _.last
- _.find
- _.findLast
- _.first → head

```
var users = [  
  { 'user': 'barney', 'age': 36, 'active': true },  
  { 'user': 'fred',   'age': 40, 'active': false },  
  { 'user': 'pebbles', 'age': 1,  'active': true }  
];  
  
_.find(users, function(o) { return o.age < 40; });  
// → object for 'barney'
```

Common functions

4. Filter

`_.filter`
`_.map`
`_.reduce`
`_.reject`
`_.without`
`_.max`
`_.maxBy`
`_.min`
`_.minBy`

```
var users = [  
  { 'user': 'barney', 'age': 36, 'active': true },  
  { 'user': 'fred', 'age': 40, 'active': false }  
];  
  
_.filter(users, function(o) { return !o.active; });  
// → objects for ['fred']  
  
function square(n) {  
  return n * n;  
}  
  
_.map([4, 8], square);  
// → [16, 64]
```

Common functions

5. Optimize array

```
_.union    _.unionBy  _.unionWith  _.  
uniq      _.uniqBy  _.uniqWith  
  
_.difference  
_.differenceBy  
_.differenceWith  
_.xor  
_.xorBy  
_.xorWith  
_.zip  
_.zipObject  
_.zipWith
```

```
_.uniq([2, 1, 2]);  
// → [2, 1]  
  
_.union([2, 1], [4, 2], [1, 2]);  
// → [2, 1, 4]  
  
_.difference([3, 2, 1], [4, 2]);  
// → [3, 1]
```

Common functions

6. Utils

_.clone

_.cloneDeep

_.cloneDeepWith

_.cloneWith

_.delay

_.after

```
var objects = [{ 'a': 1 }, { 'b': 2 }];
```

```
var shallow = _.clone(objects);  
console.log(shallow[0] === objects[0]);  
// → true
```

```
var objects = [{ 'a': 1 }, { 'b': 2 }];
```

```
var deep = _.cloneDeep(objects);  
console.log(deep[0] === objects[0]);  
// → false
```

Common functions

6. Utils

_.delay
_.after
_.before

```
var saves = ['profile', 'settings'];

var done = _.after(saves.length, function() {
  console.log('done saving!');
});

_.forEach(saves, function(type) {
  asyncSave({ 'type': type, 'complete': done });
});
// → logs 'done saving!' after the two async saves have completed
```

Notes

- Find suitable function first
- Almost functions are sync
- Be careful with return (**new** object or **modified** object)
- Almost lodash functions are implemented on **ES6**

Ref:

- <https://jsbin.com/>
- <https://jsfiddle.net/>



Q&A



Thanks for your listening!
