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Contents

1.1 agenda 0.8.0

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1.2 async 1.4.2

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{
 "name": "async",
 "description": "Higher-order functions and common patterns for asynchronous code",
 "main": "lib/async.js",
 "files": [
  "lib"
 ],
 "author": "Caolan McMahon",
 "version": "1.4.2",
 "keywords": [
  "async",
  "callback",
  "utility",
  "module"
 ],
 "repository": {
  "type": "git",
  "url": "https://github.com/caolan/async.git"
 },
 "bugs": {
  "url": "https://github.com/caolan/async/issues"
 },
 "license": "MIT",
 "devDependencies": {
  "benchmark": "bestiejs/benchmark.js",
  "bluebird": "^2.9.32",
  "chai": "^3.1.0",
  "coveralls": "^2.11.2",
  "es6-promise": "^2.3.0",
  "jscs": "^1.13.1",
  "jshint": "~2.8.0",
  "karma": "^0.13.2",
  "karma-browserify": "^4.2.1",
  "karma-firefox-launcher": "^0.1.6",
  "karma-mocha": "^0.2.0",
  "karma-mocha-reporter": "^1.0.2",
  "lodash": "^3.9.0",
  "mkdirp": "~0.5.1",
  "mocha": "^2.2.5",
  "native-promise-only": "^0.8.0-a",
  "nodeunit": ">0.0.0",
  "nyc": "^2.1.0",
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      "rsvp": "^3.0.18",
      "uglify-js": "~2.4.0",
      "xyz": "^0.5.0",
      "yargs": "~3.9.1"
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    "jam": {
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        "README.md",
        "LICENSE"
      ],
      "categories": [
        "Utilities"
      ]
    },
    "scripts": {
      "mocha-node-test": "mocha mocha_test/",
      "mocha-browser-test": "karma start",
      "mocha-test": "npm run mocha-node-test && npm run mocha-browser-test",
      "nodeunit-test": "nodeunit test/test-async.js",
      "test": "npm run-script lint && npm run nodeunit-test && npm run mocha-test",
      "lint": "jshint lib/*.js test/*.js perf/*.js && jscs lib/*.js test/*.js perf/*.js",
      "coverage": "nyc npm test && nyc report",
      "coveralls": "nyc npm test && nyc report --reporter=text-lcov | coveralls"
    },
    "spm": {
      "main": "lib/async.js"
    },
    "volo": {
      "main": "lib/async.js",
      "ignore": [
        "**/.*",
        "node_modules",
        "bower_components",
        "test",
        "tests"
      ]
    }
}
```

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1.4 bluebird 3.5.1

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1.5 body-parser 1.13.3

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1.6 commander 2.8.1

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Commander.js

[![Build Status](https://api.travis-ci.org/tj/commander.js.svg)](http://travis-ci.org/tj/commander.js)
[![NPM
Version](http://img.shields.io/npm/v/commander.svg?style=flat)](https://www.npmjs.org/package/commander)

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 The complete solution for [node.js](http://nodejs.org) command-line interfaces, inspired by Ruby's
[commander](https://github.com/tj/commander).
 [API documentation](http://tj.github.com/commander.js/)

Installation

  $ npm install commander

Option parsing

Options with commander are defined with the `.option()` method, also serving as documentation for the options. The
example below parses args and options from `process.argv`, leaving remaining args as the `program.args` array
which were not consumed by options.

```js
#!/usr/bin/env node

/**
 * Module dependencies.
 */

var program = require('commander');

program
 .version('0.0.1')
 .option('-p, --peppers', 'Add peppers')
 .option('-P, --pineapple', 'Add pineapple')
 .option('-b, --bbq-sauce', 'Add bbq sauce')
 .option('-c, --cheese [type]', 'Add the specified type of cheese [marble]', 'marble')
 .parse(process.argv);

console.log('you ordered a pizza with:');
if (program.peppers) console.log('  - peppers');
if (program.pineapple) console.log('  - pineapple');
if (program.bbqSauce) console.log('  - bbq');
console.log('  - %s cheese', program.cheese);
```

Short flags may be passed as a single arg, for example `-abc` is equivalent to `-a -b -c`. Multi-word options such as
"--template-engine" are camel-cased, becoming `program.templateEngine` etc.

Coercion

```js
function range(val) {
 return val.split('..').map(Number);
}

function list(val) {
 return val.split(',');
}

function collect(val, memo) {
 memo.push(val);
 return memo;
}

function increaseVerbosity(v, total) {
 return total + 1;
}

program
 .version('0.0.1')
 .usage('[options] <file ...>')
 .option('-i, --integer <n>', 'An integer argument', parseInt)
 .option('-f, --float <n>', 'A float argument', parseFloat)
 .option('-r, --range <a>..<b>', 'A range', range)
 .option('-l, --list <items>', 'A list', list)
 .option('-o, --optional [value]', 'An optional value')
 .option('-c, --collect [value]', 'A repeatable value', collect, [])
 .option('-v, --verbose', 'A value that can be increased', increaseVerbosity, 0)
 .parse(process.argv);

console.log(' int: %j', program.integer);
console.log(' float: %j', program.float);
console.log(' optional: %j', program.optional);
program.range = program.range || [];
console.log(' range: %j..%j', program.range[0], program.range[1]);
console.log(' list: %j', program.list);
console.log(' collect: %j', program.collect);
console.log(' verbosity: %j', program.verbose);
console.log(' args: %j', program.args);
```

Regular Expression
```js
program
```

```
 .version('0.0.1')
 .option('-s --size <size>', 'Pizza size', /^(large|medium|small)$/i, 'medium')
 .option('-d --drink [drink]', 'Drink', /^(coke|pepsi|izze)$/i)
 .parse(process.argv);

console.log(' size: %j', program.size);
console.log(' drink: %j', program.drink);
```

Variadic arguments

The last argument of a command can be variadic, and only the last argument. To make an argument variadic you have to
append `...` to the argument name. Here is an example:

```js
#!/usr/bin/env node

/**
 * Module dependencies.
 */

var program = require('commander');

program
 .version('0.0.1')
 .command('rmdir <dir> [otherDirs...]')
 .action(function (dir, otherDirs) {
  console.log('rmdir %s', dir);
  if (otherDirs) {
   otherDirs.forEach(function (oDir) {
    console.log('rmdir %s', oDir);
   });
  }
 });

program.parse(process.argv);
```

An `Array` is used for the value of a variadic argument. This applies to `program.args` as well as the argument passed
to your action as demonstrated above.

Specify the argument syntax

```js
#!/usr/bin/env node
```

```js
var program = require('../');

program
 .version('0.0.1')
 .arguments('<cmd> [env]')
 .action(function (cmd, env) {
    cmdValue = cmd;
    envValue = env;
 });

program.parse(process.argv);

if (typeof cmdValue === 'undefined') {
  console.error('no command given!');
  process.exit(1);
}
console.log('command:', cmdValue);
console.log('environment:', envValue || "no environment given");
```

Git-style sub-commands

```js
// file: ./examples/pm
var program = require('..');

program
 .version('0.0.1')
 .command('install [name]', 'install one or more packages')
 .command('search [query]', 'search with optional query')
 .command('list', 'list packages installed')
 .parse(process.argv);
```

When `.command()` is invoked with a description argument, no `.action(callback)` should be called to handle sub-commands, otherwise there will be an error. This tells commander that you're going to use separate executables for sub-commands, much like `git(1)` and other popular tools.
The commander will try to search the executables in the directory of the entry script (like `./examples/pm`) with the name `program-command`, like `pm-install`, `pm-search`.

If the program is designed to be installed globally, make sure the executables have proper modes, like `755`.

`--harmony`

You can enable `--harmony` option in two ways:
* Use `#! /usr/bin/env node --harmony` in the sub-commands scripts. Note some os version don't support this pattern.
* Use the `--harmony` option when call the command, like `node --harmony examples/pm publish`. The `--harmony`

option will be preserved when spawning sub-command process.

Automated --help

The help information is auto-generated based on the information commander already knows about your program, so the following `--help` info is for free:

```
$ ./examples/pizza --help

  Usage: pizza [options]

  An application for pizzas ordering

  Options:

    -h, --help         output usage information
    -V, --version      output the version number
    -p, --peppers      Add peppers
    -P, --pineapple    Add pineapple
    -b, --bbq          Add bbq sauce
    -c, --cheese <type>  Add the specified type of cheese [marble]
    -C, --no-cheese    You do not want any cheese

```

Custom help

You can display arbitrary `-h, --help` information
by listening for "--help". Commander will automatically
exit once you are done so that the remainder of your program
does not execute causing undesired behaviours, for example
in the following executable "stuff" will not output when
`--help` is used.

```js
#!/usr/bin/env node

/**
 * Module dependencies.
 */

var program = require('commander');

program
  .version('0.0.1')
  .option('-f, --foo', 'enable some foo')
  .option('-b, --bar', 'enable some bar')
```

```
  .option('-B, --baz', 'enable some baz');

  // must be before .parse() since
  // node's emit() is immediate

  program.on('--help', function(){
   console.log('  Examples:');
   console.log('');
   console.log('    $ custom-help --help');
   console.log('    $ custom-help -h');
   console.log('');
  });

  program.parse(process.argv);

  console.log('stuff');
```

Yields the following help output when `node script-name.js -h` or `node script-name.js --help` are run:

```

Usage: custom-help [options]

Options:

 -h, --help     output usage information
 -V, --version  output the version number
 -f, --foo      enable some foo
 -b, --bar      enable some bar
 -B, --baz      enable some baz

Examples:

 $ custom-help --help
 $ custom-help -h

```

.outputHelp()

Output help information without exiting.

If you want to display help by default (e.g. if no command was provided), you can use something like:

```js
var program = require('commander');
```

```
program
 .version('0.0.1')
 .command('getstream [url]', 'get stream URL')
 .parse(process.argv);

 if (!process.argv.slice(2).length) {
  program.outputHelp();
 }
```

.help()

 Output help information and exit immediately.

Examples

```js
var program = require('commander');

program
 .version('0.0.1')
 .option('-C, --chdir <path>', 'change the working directory')
 .option('-c, --config <path>', 'set config path. defaults to ./deploy.conf')
 .option('-T, --no-tests', 'ignore test hook')

program
 .command('setup [env]')
 .description('run setup commands for all envs')
 .option("-s, --setup_mode [mode]", "Which setup mode to use")
 .action(function(env, options){
  var mode = options.setup_mode || "normal";
  env = env || 'all';
  console.log('setup for %s env(s) with %s mode', env, mode);
 });

program
 .command('exec <cmd>')
 .alias('ex')
 .description('execute the given remote cmd')
 .option("-e, --exec_mode <mode>", "Which exec mode to use")
 .action(function(cmd, options){
  console.log('exec "%s" using %s mode', cmd, options.exec_mode);
 }).on('--help', function() {
  console.log('  Examples:');
  console.log();
  console.log('    $ deploy exec sequential');
  console.log('    $ deploy exec async');
  console.log();
```

```
  });

program
 .command('*')
 .action(function(env){
   console.log('deploying "%s"', env);
 });

program.parse(process.argv);
```

More Demos can be found in the [examples](https://github.com/tj/commander.js/tree/master/examples) directory.

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1.7 config (npm) 1.15.0

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1.8 debug 2.2.0

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debug

 tiny node.js debugging utility modelled after node core's debugging technique.

Installation

```bash
$ npm install debug
```

Usage

With `debug` you simply invoke the exported function to generate your debug function, passing it a name which will determine if a noop function is returned, or a decorated `console.error`, so all of the `console` format string goodies you're used to work fine. A unique color is selected per-function for visibility.

Example _app.js_:

```js
var debug = require('debug')('http')
 , http = require('http')
 , name = 'My App';

// fake app

debug('booting %s', name);

http.createServer(function(req, res){
 debug(req.method + ' ' + req.url);
 res.end('hello\n');
}).listen(3000, function(){
 debug('listening');
});

// fake worker of some kind

require('./worker');
```

Example _worker.js_:

```js
var debug = require('debug')('worker');

setInterval(function(){
 debug('doing some work');
}, 1000);
```

```
```

The __DEBUG__ environment variable is then used to enable these based on space or comma-delimited names. Here are some examples:

 ![debug http and worker](http://f.cl.ly/items/18471z1H402O24072r1J/Screenshot.png)

 ![debug worker](http://f.cl.ly/items/1X413v1a3M0d3C2c1E0i/Screenshot.png)

Windows note

On Windows the environment variable is set using the `set` command.

```cmd
set DEBUG=*,-not_this
```

Then, run the program to be debugged as usual.

Millisecond diff

 When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

 When stdout is not a TTY, `Date#toUTCString()` is used, making it more useful for logging the debug information as shown below:

Conventions

If you're using this in one or more of your libraries, you _should_ use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you _should_ prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser".

Wildcards

 The `*` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with `DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do `DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

 You can also exclude specific debuggers by prefixing them with a "-" character. For example, `DEBUG=*,-connect:*` would include all debuggers except those starting with "connect:".

Browser support

Debug works in the browser as well, currently persisted by `localStorage`. Consider the situation shown below where you have `worker:a` and `worker:b`, and wish to debug both. Somewhere in the code on your page, include:

```js
window.myDebug = require("debug");
```

("debug" is a global object in the browser so we give this object a different name.) When your page is open in the browser, type the following in the console:

```js
myDebug.enable("worker:*")
```

Refresh the page. Debug output will continue to be sent to the console until it is disabled by typing `myDebug.disable()` in the console.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
 a('doing some work');
}, 1000);

setInterval(function(){
 b('doing some work');
}, 1200);
```

Web Inspector Colors

Colors are also enabled on "Web Inspectors" that understand the `%c` formatting
option. These are WebKit web inspectors, Firefox ([since version
31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/))
and the Firebug plugin for Firefox (any version).

Colored output looks something like:

stderr vs stdout

You can set an alternative logging method per-namespace by overriding the `log` method on a per-namespace or

globally:

Example _stdout.js_:

```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
```

Save debug output to a file

You can save all debug statements to a file by piping them.

Example:

```bash
$ DEBUG_FD=3 node your-app.js 3> whatever.log
```

Authors

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- Nathan Rajlich

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1.9 enum 2.5.0

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1.13 fs 0.0.2

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```
{
  "name": "fs",
  "version": "0.0.2",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "MIT"
}
```

1.14 fs-extra 0.26.7

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1.17 moment 2.20.1

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1.18 on-finished 2.3.0

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1.25 xmlbuilder 4.2.1

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