

Web Development with Node.js and MongoDB

Andrew Marcinkevičius

Video 1.5

Hello Workout



In this Video, we are going to take a look at...

- Making a CLI application
- Using ESLint
- Debugging an application

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01-hello-workout.js ×

```
1 #!/usr/bin/env node
2
3 'use strict';
4
5 console.log('It works!');
6 |
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]
```

```
$ chmod u+x 01-hello-workout.js
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]
```

```
$ █
```

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01-hello-workout.js ×

```
1 #!/usr/bin/env node
2
3 'use strict';
4
5 const args = process.argv.slice(2);
6
```

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01-hello-workout.js

```
1 #!/usr/bin/env node
2
3 'use strict';
4
5 const args = process.argv.slice(2);
6
7 let name = args[0];
8
9 const availableIntensities = ['low', 'medium', 'high'];
10 let intensity = availableIntensities.indexOf(args[1]) >
```


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01-hello-workout.js

```
1 #!/usr/bin/env node
2
3 'use strict';
4
5 const args = process.argv.slice(2);
6
7 let name = args[0];
8
9 const availableIntensities = ['low', 'medium', 'high'];
10 let intensity = availableIntensities.indexOf(args[1]) > -1 ? args[1] : 'low';
11
```

```
1  #!/usr/bin/env node
2
3  'use strict';
4
5  const args = process.argv.slice(2);
6
7  let name = args[0];
8
9  const availableIntensities = ['low', 'medium', 'high'];
10 let intensity = availableIntensities.indexOf(args[1]) > -1 ? args[1] : 'low';
11
12 process.stdout.write('Hello ' + name + '\n');
13 process.stdout.write('You chose ' + intensity + ' intensity workout\n');
14
15 process.stdout.write('\nBellow are your exercises:\n');
16
```



```
2
3 'use strict';
4
5 const args = process.argv.slice(2);
6
7 let name = args[0];
8
9 const availableIntensities = ['low', 'medium', 'high'];
10 let intensity = availableIntensities.indexOf(args[1]) > -1 ? args[1] : 'low';
11
12 process.stdout.write('Hello ' + name + '\n');
13 process.stdout.write('You chose ' + intensity + ' intensity workout\n');
14
15 process.stdout.write('\nBellow are your exercises\n');
16
17 function exercise(name, intensity) {
18     let min = 1;
19     let max = 5;
20
21     switch (intensity) {
22         case 'medium':
23             min = 10;
24             max = 25;
25             break;
26
27         case 'high':
28             min = 50;
29             max = 100;
30             break;
31     }
```

```
12 process.stdout.write('Hello ' + name + '\n');
13 process.stdout.write('You chose ' + intensity + ' intensity workout\n');
14
15 process.stdout.write('\nBellow are your exercises:\n');
16
17 function exercise(name, intensity) {
18     let min = 1;
19     let max = 5;
20
21     switch (intensity) {
22         case 'medium':
23             min = 10;
24             max = 25;
25             break;
26
27         case 'high':
28             min = 50;
29             max = 100;
30             break;
31     }
32
33     let reps = Math.floor(Math.random() * (max - min) + min);
34
35     process.stdout.write(name + ' ' + reps + '\n');
36 }
37
38 exercise('Push-ups:', intensity);
39 exercise('Pull-ups:', intensity);
40 exercise('Squats: ', intensity);
41 exercise('Plank: ', intensity);
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]
```

```
$ ./01-hello-workout.js Andrew high
```

```
Hello Andrew
```

```
You chose high intensity workout
```

```
Bellow are your exercises:
```

```
Push-ups: 52
```

```
Pull-ups: 87
```

```
Squats: 69
```

```
Plank: 52
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]
```

```
$ █
```



```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]
```

```
$ ./01-hello-workout.js Andrew intensive
```

```
Hello Andrew
```

```
You chose low intensity workout
```

```
Bellow are your exercises:
```

```
Push-ups: 2
```

```
Pull-ups: 4
```

```
Squats: 2
```

```
Plank: 1
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]
```

```
$ █
```

1

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]

\$ █

ifdattie at ifdattie-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]

\$ eslint --init

? How would you like to configure ESLint? Answer questions about your style

? What style of indentation do you use? (Use arrow keys)

Tabs

Spaces

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]

\$ eslint --init

? How would you like to configure ESLint? Answer questions about your style

? What style of indentation do you use? Spaces

? What quotes do you use for strings? Single

? What line endings do you use? Unix

? Do you require semicolons? Yes

? Are you using ECMAScript 6 features? Yes

? Where will your code run? (Press <space> to select)

> ☐ Node

☒ Browser

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]

\$ eslint --init

? How would you like to configure ESLint? Answer questions about your style

? What style of indentation do you use? Spaces

? What quotes do you use for strings? Single

? What line endings do you use? Unix

? Do you require semicolons? Yes

? Are you using ECMAScript 6 features? Yes

? Where will your code run? Node, Browser

? Do you use JSX? No

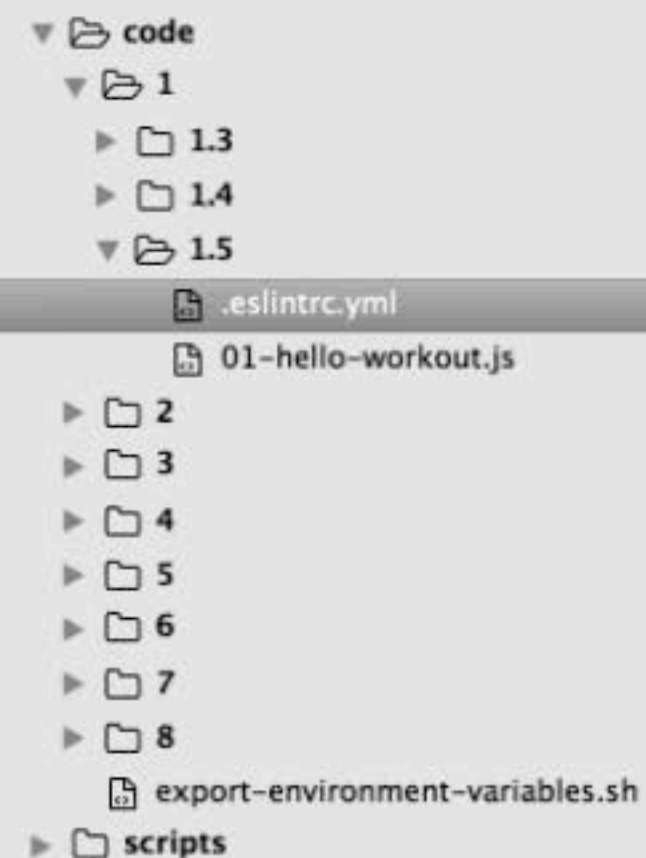
? What format do you want your config file to be in?

JavaScript

> YAML

JSON

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]  
$ eslint --init  
? How would you like to configure ESLint? Answer questions about your style  
? What style of indentation do you use? Spaces  
? What quotes do you use for strings? Single  
? What line endings do you use? Unix  
? Do you require semicolons? Yes  
? Are you using ECMAScript 6 features? Yes  
? Where will your code run? Node, Browser  
? Do you use JSX? No  
? What format do you want your config file to be in? YAML  
Successfully created .eslintrc.yml file in /Users/ifdattic/projects/nodejs-mongodb-video-course/code/1/1.5  
  
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!]  
$
```



```
.eslintrc.yml
1 rules:
2   indent:
3     - 2
4     - 4
5   quotes:
6     - 2
7     - single
8   linebreak-style:
9     - 2
10    - unix
11  semi:
12    - 2
13    - always
14  env:
15    es6: true
16    node: true
17    browser: true
18  extends: 'eslint:recommended'
19
```



```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
$ eslint 01-hello-workout.js
```

```
/Users/ifdattic/projects/nodejs-mongodb-video-course/code/1/1.5/01-hello-workout.js
```

```
22:9   error   Expected indentation of 4 space characters but found 8   indent
23:13  error   Expected indentation of 8 space characters but found 12  indent
24:13  error   Expected indentation of 8 space characters but found 12  indent
25:13  error   Expected indentation of 8 space characters but found 12  indent
27:9   error   Expected indentation of 4 space characters but found 8   indent
28:13  error   Expected indentation of 8 space characters but found 12  indent
29:13  error   Expected indentation of 8 space characters but found 12  indent
30:13  error   Expected indentation of 8 space characters but found 12  indent
```

```
* 8 problems (8 errors, 0 warnings)
```

```
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$ █
```


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.eslintrc.yml

```
1 rules:
2   indent:
3     - 2
4     - 4
5   quotes:
6     - 2
7     - single
8   linebreak-style:
9     - 2
10    - unix
11   semi:
12     - 2
13     - always
14   env:
15     es6: true
16     node: true
17     browser: true
18   extends: 'eslint:recommended'
19
```

- code
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 - 6
 - 7
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```
.eslintrc.yml
1 rules:
2   indent:
3     - 2
4     - 4
5     - { SwitchCase: 1 }
6   quotes:
7     - 2
8     - single
9   linebreak-style:
10    - 2
11    - unix
12   semi:
13    - 2
14    - always
15  env:
16    es6: true
17    node: true
18    browser: true
19  extends: 'eslint:recommended'
20
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
```

```
$ eslint 01-hello-workout.js
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
```

```
$ █
```

```
01-hello-workout.js
13 process.stdout.write('You chose ' + intensity + ' intensity workout\n');
14
15 process.stdout.write('\nBellow are your exercises:\n');
16
17 function exercise(name, intensity) {
18     let min = 1;
19     let max = 5;
20
21     switch (intensity) {
22         case 'medium':
23             min = 10;
24             max = 25;
25             break;
26
27         case 'high':
28             min = 50;
29             max = 100;
30             break;
31     }
32     console.log('Error');
33     let sets
34     let reps = Math.floor(Math.random() * (max - min) + min);
35
36     process.stdout.write(name + ' ' + reps + '\n');
37 }
38
39 exercise('Push-ups:', intensity);
40 exercise('Pull-ups:', intensity);
41 exercise('Squats: ', intensity);
42 exercise('Plank: ', intensity);
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]  
$ eslint 01-hello-workout.js
```



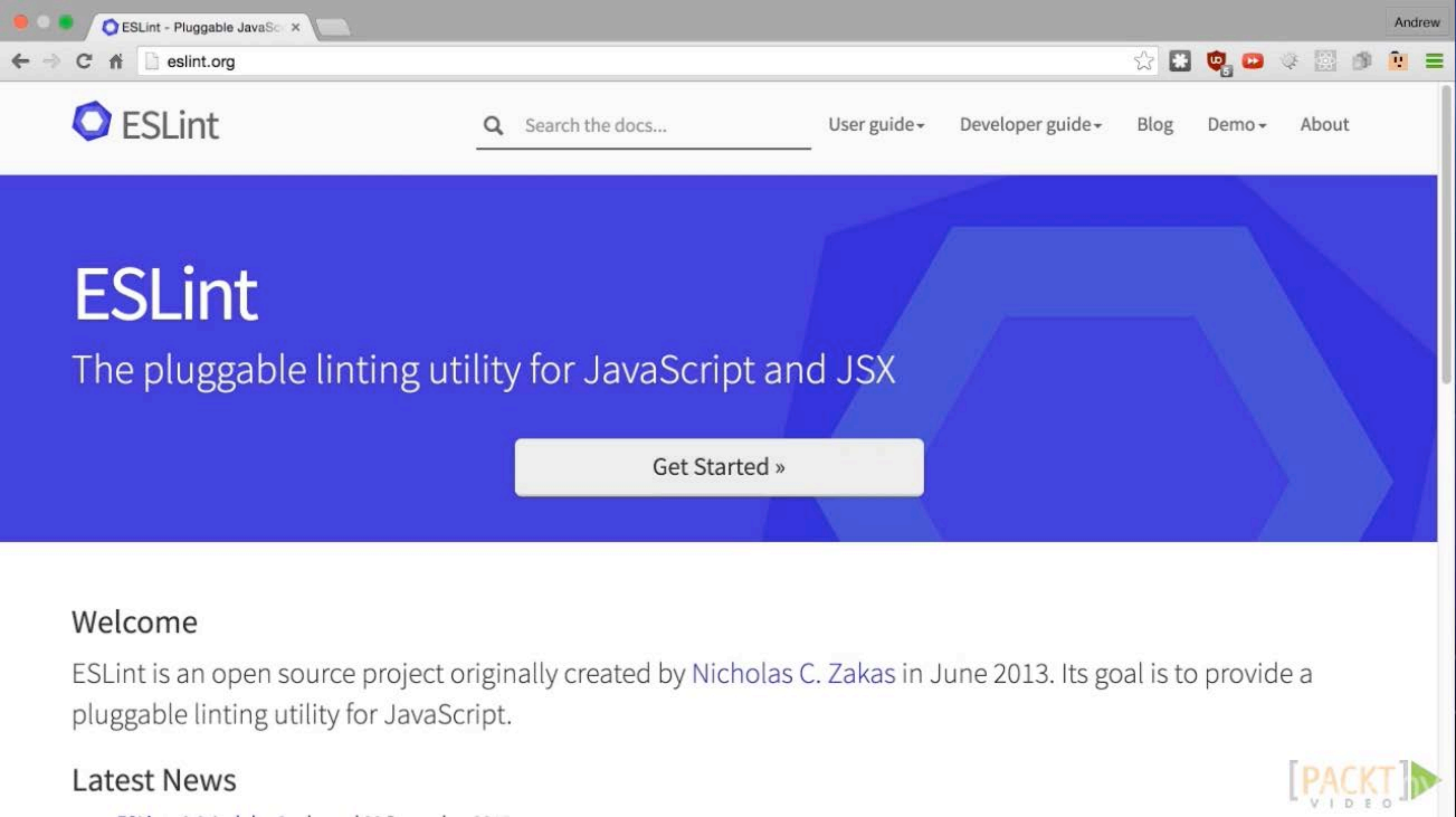
```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
$ eslint 01-hello-workout.js
```

```
/Users/ifdattic/projects/nodejs-mongodb-video-course/code/1/1.5/01-hello-workout.js
```

```
32:5  error  Unexpected console statement      no-console
33:9  error  "sets" is defined but never used  no-unused-vars
34:61 error  Missing semicolon                 semi
```

```
* 3 problems (3 errors, 0 warnings)
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
$ █
```

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About

ESLint

The pluggable linting utility for JavaScript and JSX

Get Started »

Welcome

ESLint is an open source project originally created by [Nicholas C. Zakas](#) in June 2013. Its goal is to provide a pluggable linting utility for JavaScript.

Latest News



```
01-hello-workout.js
1  #!/usr/bin/env node
2
3  'use strict';
4
5  const args = process.argv.slice(2);
6
7  let name = args[0];
8
9  console.log('=== Debugging name variable ===', name)
10
11  const availableIntensities = ['low', 'medium', name [variable]
12  let intensity = availableIntensities.indexOf(args[1]) > -1 ? args[1] : 'low';
13
14  process.stdout.write('Hello ' + name + '\n');
15  process.stdout.write('You chose ' + intensity + ' intensity workout\n');
16
17  process.stdout.write('\nBellow are your exercises:\n');
18
19  function exercise(name, intensity) {
20      let min = 1;
21      let max = 5;
22
23      switch (intensity) {
24          case 'medium':
25              min = 10;
26              max = 25;
27              break;
28
29          case 'high':
30              min = 50;
```



```
1  #!/usr/bin/env node
2
3  'use strict';
4
5  const args = process.argv.slice(2);
6
7  let name = args[0];
8
9  console.log('=== Debugging name variable ===', name);
10
11 const availableIntensities = ['low', 'medium', 'high'];
12 let intensity = availableIntensities.indexOf(args[1]) > -1 ? args[1] : 'low';
13
14 process.stdout.write('Hello ' + name + '\n');
15 process.stdout.write('You chose ' + intensity + ' intensity workout\n');
16
17 process.stdout.write('\nBellow are your exercises:\n');
18
19 function exercise(name, intensity) {
20     let min = 1;
21     let max = 5;
22
23     switch (intensity) {
24         case 'medium':
25             min = 10;
26             max = 25;
27             break;
28
29         case 'high':
30             min = 50;
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
```

```
$ ./01-hello-workout.js
```

```
=== Debugging name variable === undefined
```

```
Hello undefined
```

```
You chose low intensity workout
```

```
Bellow are your exercises:
```

```
Push-ups: 3
```

```
Pull-ups: 4
```

```
Squats: 4
```

```
Plank: 1
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
```

```
$ █
```

```
1  #!/usr/bin/env node
2
3  'use strict';
4
5  const args = process.argv.slice(2);
6
7  let name = args[0];
8
9  if (!name) {
10     process.stdout.write('Please provide your name!');
11
12     process.exit(1);
13 }
14
15 const availableIntensities = ['low', 'medium', 'high'];
16 let intensity = availableIntensities.indexOf(args[1]) > -1 ? args[1] : 'low';
17
18 process.stdout.write('Hello ' + name + '\n');
19 process.stdout.write('You chose ' + intensity + ' intensity workout\n');
20
21 process.stdout.write('\nBelow are your exercises:\n');
22
23 function exercise(name, intensity) {
24     let min = 1;
25     let max = 5;
26
27     switch (intensity) {
28         case 'medium':
29             min = 10;
30             max = 25;
```



```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]  
$ ./01-hello-workout.js  
Please provide your name!  
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]  
$ █
```



```
1  #!/usr/bin/env node
2
3  'use strict';
4
5  const args = process.argv.slice(2);
6
7  let name = args[0];
8
9  if (!name) {
10     let x = 5;
11     debugger;
12     process.stdout.write('Please provide your name!');
13
14     process.exit(1);
15 }
16
17 const availableIntensities = ['low', 'medium', 'high'];
18 let intensity = availableIntensities.indexOf(args[1]) > -1 ? args[1] : 'low';
19
20 process.stdout.write('Hello ' + name + '\n');
21 process.stdout.write('You chose ' + intensity + ' intensity workout\n');
22
23 process.stdout.write('\nBellow are your exercises:\n');
24
25 function exercise(name, intensity) {
26     let min = 1;
27     let max = 5;
28
29     switch (intensity) {
30         case 'medium':
```

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]

\$ node debug 01-hello-workout.js

< Debugger listening on port 5858

connecting to 127.0.0.1:5858 ... ok

break in 01-hello-workout.js:3

1

2

> 3 'use strict';

4

5 const args = process.argv.slice(2);

debug> █

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
$ node debug 01-hello-workout.js
< Debugger listening on port 5858
connecting to 127.0.0.1:5858 ... ok
break in 01-hello-workout.js:3
   1
   2
> 3 'use strict';
   4
   5 const args = process.argv.slice(2);
debug> help
Commands: run (r), cont (c), next (n), step (s), out (o), backtrace (bt), setBreakpoint (sb), clearBreakpoint (cb),
watch, unwatch, watchers, repl, exec, restart, kill, list, scripts, breakOnException, breakpoints, version
debug> c
break in 01-hello-workout.js:11
   9 if (!name) {
  10     let x = 5;
> 11     debugger;
  12     process.stdout.write('Please provide your name!');
  13
debug> repl
Press Ctrl + C to leave debug repl
> console.log(name)
< undefined
> co
```



```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
$ node debug 01-hello-workout.js
< Debugger listening on port 5858
connecting to 127.0.0.1:5858 ... ok
break in 01-hello-workout.js:3
   1
   2
> 3 'use strict';
   4
   5 const args = process.argv.slice(2);
debug> help
Commands: run (r), cont (c), next (n), step (s), out (o), backtrace (bt), setBreakpoint (sb), clearBreakpoint (cb),
watch, unwatch, watchers, repl, exec, restart, kill, list, scripts, breakOnException, breakpoints, version
debug> c
break in 01-hello-workout.js:11
   9 if (!name) {
  10     let x = 5;
>11     debugger;
  12     process.stdout.write('Please provide your name!');
  13
debug> repl
Press Ctrl + C to leave debug repl
> console.log(name)
< undefined
> console.log(x)
< 5
debug>
(To exit, press ^C again or type .exit)
debug> 
```

^C

Node.js (1)

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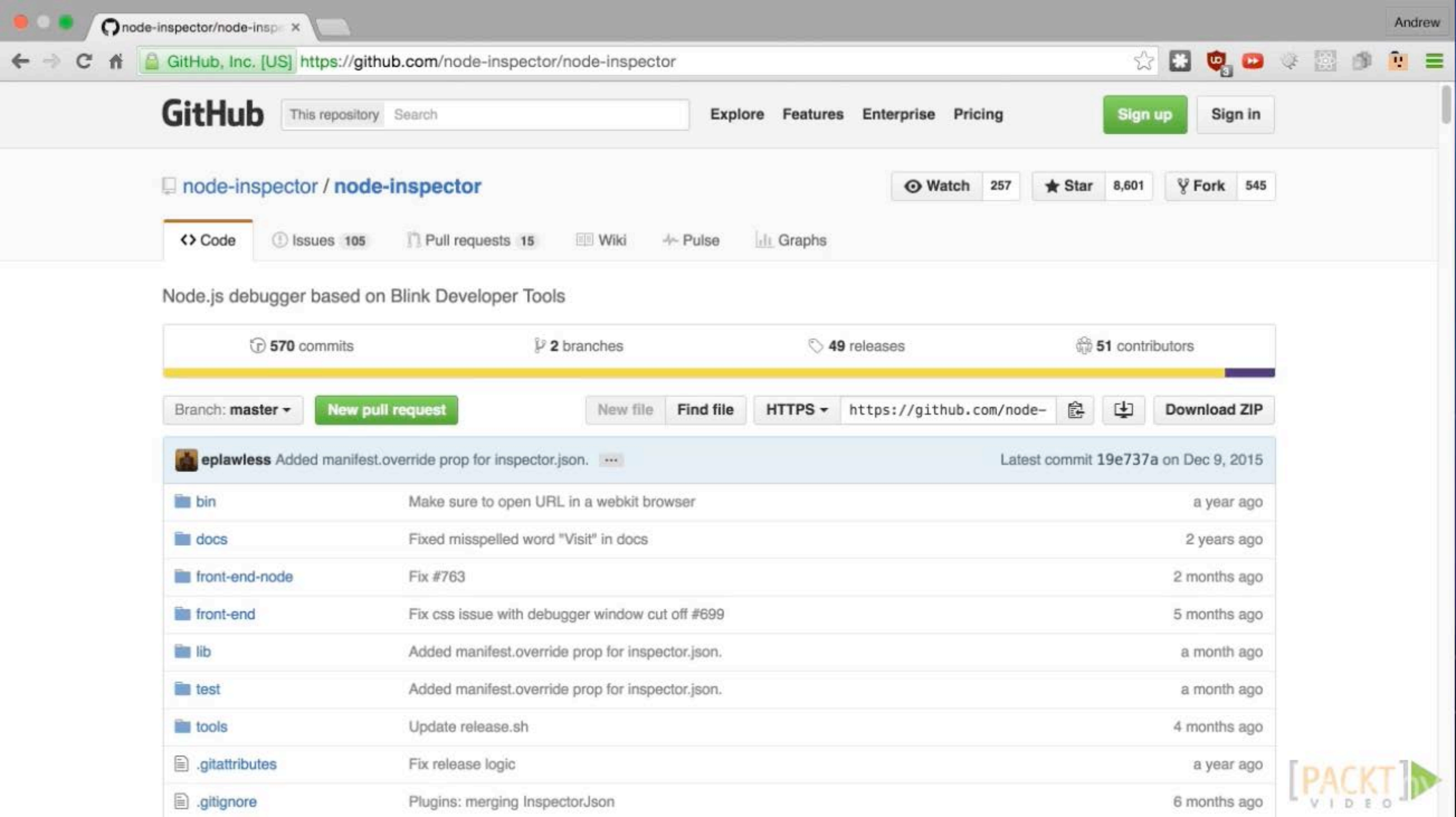
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Debugger

#

Stability: 2 - Stable

Node.js includes a full-featured out-of-process debugging utility accessible via a simple **TCP-based protocol** and built-in debugging client. To use it, start Node.js with the `debug`



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Node.js debugger based on Blink Developer Tools

570 commits

2 branches

49 releases

51 contributors

Branch: master

New pull request

New file

Find file

HTTPS

https://github.com/node-

Download ZIP

eplawless Added manifest.override prop for inspector.json. ...

Latest commit 19e737a on Dec 9, 2015

bin	Make sure to open URL in a webkit browser	a year ago
docs	Fixed misspelled word "Visit" in docs	2 years ago
front-end-node	Fix #763	2 months ago
front-end	Fix css issue with debugger window cut off #699	5 months ago
lib	Added manifest.override prop for inspector.json.	a month ago
test	Added manifest.override prop for inspector.json.	a month ago
tools	Update release.sh	4 months ago
.gitattributes	Fix release logic	a year ago
.gitignore	Plugins: merging InspectorJson	6 months ago

```
$ npm install -g node-inspector
```

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]
```

```
$ node-debug 01-hello-workout.js Andrew
```

```
Node Inspector is now available from http://127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
```

```
Debugging `01-hello-workout.js`
```

```
Debugger listening on port 5858
```

```
No browser matching [chrome,chromium,opera] found in the system! If this is not true, submit a bug report on https://github.com/benderjs/browser-launcher2
```

```
Please open the URL manually in Chrome/Chromium/Opera or similar browser
```

```
█
```

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/1/1.5 on master [!?]

\$ node-debug 01-hello-workout.js Andrew

Node Inspector is now available from <http://127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858>

Debugging `01-hello-workout.js`

Debugger listening on port 5858

No browser matching [chrome,chromium,opera] found in the system! If this is not true, submit a bug report on <https://github.com/benderjs/browser-launcher2>

Please open the URL manually in Chrome/Chromium/Opera or similar browser

█

Node Inspector - file:///Us... x

127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858

Network Sources Profiles Console

Sources Content scrip... Snippets 01-hello-workout.js x

```
1 (function (exports, require, module, __filename, __dirname) {
2
3
4 'use strict';
5
6 const args = process.argv.slice(2);
7
8 let name = args[0];
9
10 if (!name) {
11   process.stdout.write('Please provide your name!');
12   process.exit(1);
13 }
14
15 const availableIntensities = ['low', 'medium', 'high'];
16 let intensity = availableIntensities.indexOf(args[1]) > -1 ? args[1] : 'low';
17
18 process.stdout.write('Hello ' + name + '\n');
19 process.stdout.write('You chose ' + intensity + ' intensity workout\n');
20
21 process.stdout.write('\nBellow are your exercises:\n');
22
23 function exercise(name, intensity) {
24   let min = 1;
25   let max = 5;
26
27   switch (intensity) {
28     case 'medium':
29
30   }
31 }
```

Line 3, Column 1

Watch Expressions +

Call Stack Async

- 01-hello-workout.js:3 (anonymous function)
- module.js:399 Module._compile
- module.js:406 Module._extensions..js
- module.js:345 Module.load
- module.js:302 Module._load
- module.js:431 Module.runMain
- timers.js:93 listOnTimeout

Scope Variables

Local

- __dirname: "/Users/ifdatti..."
- __filename: "/Users/ifdatti..."
- args: undefined
- availableIntensities: unde...
- exercise: function exerci...
- exports: Object
- intensity: undefined
- module: Module
- name: undefined

Console Search Emulation Rendering

scrape ☒ Ignore case ☐ Regular expression

Node Inspector - file:///... 127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858

Network Sources Profiles Console

Sources Content script Snippets

01-hello-workout.js

```
28 case 'medium':
29   min = 10;
30   max = 20;
31   break;
32
33 case 'high':
34   min = 50;
35   max = 100;
36   break;
37
38 }
39
40 let reps = Math.floor(Math.random() * (max - min) + min);
41
42 process.stdout.write(name + ' ' + reps + '\n');
43 }
44
45 exercise('Push-ups', intensity);
46 exercise('Pull-ups', intensity);
47 exercise('Squats', intensity);
48 exercise('Plank', intensity);
49
50 };
```

Line 40, Column 1

Call Stack Async

- 01-hello-workout.js:3
- Anonymous function
- module.js:339
- Module._compile
- module.js:406
- Module._extensions.js
- Module.load module.js:345
- Module._load module.js:302
- Module.runMain module.js:431
- listOnTimeout timers.js:91

Scope Variables

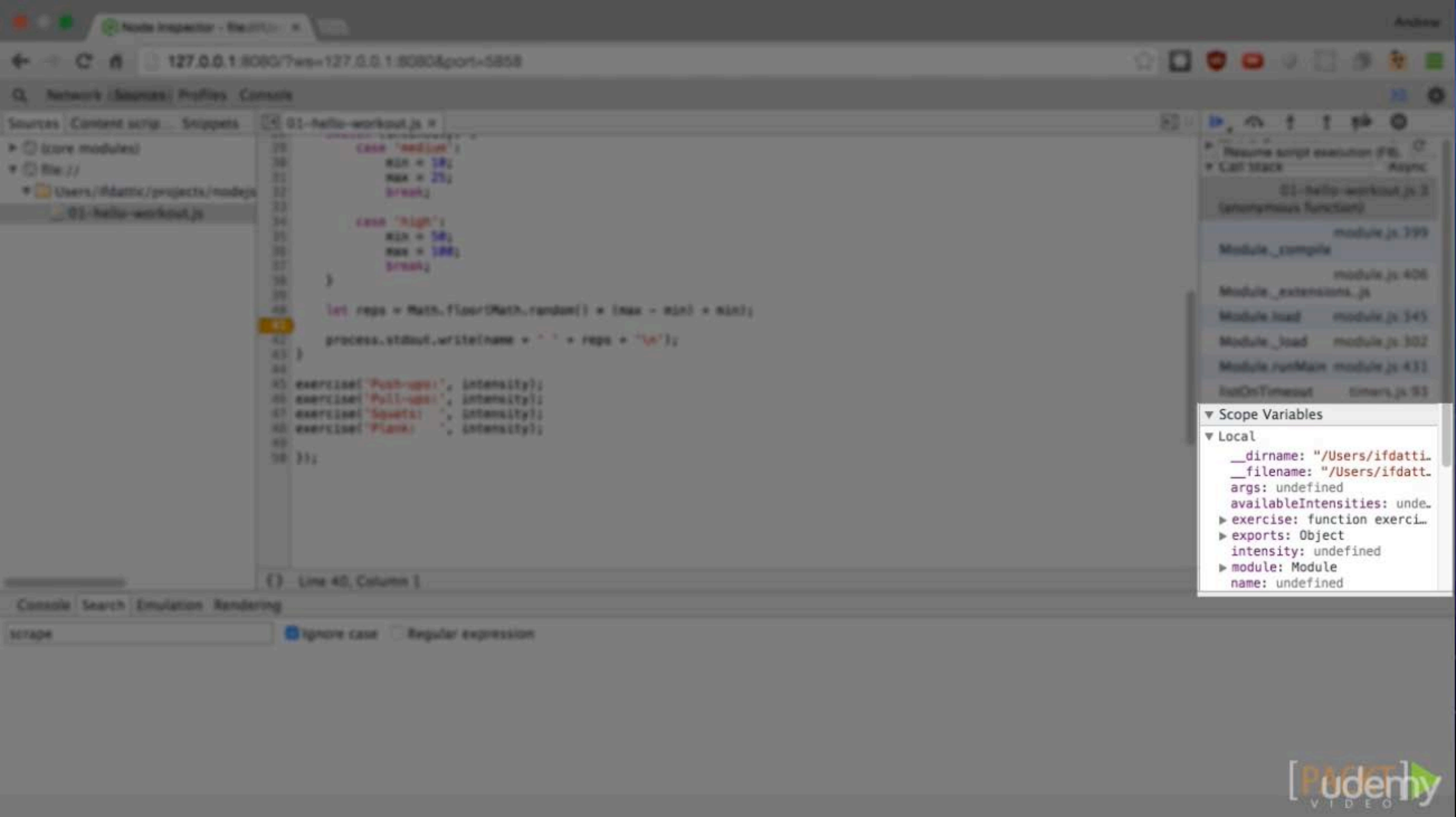
Local

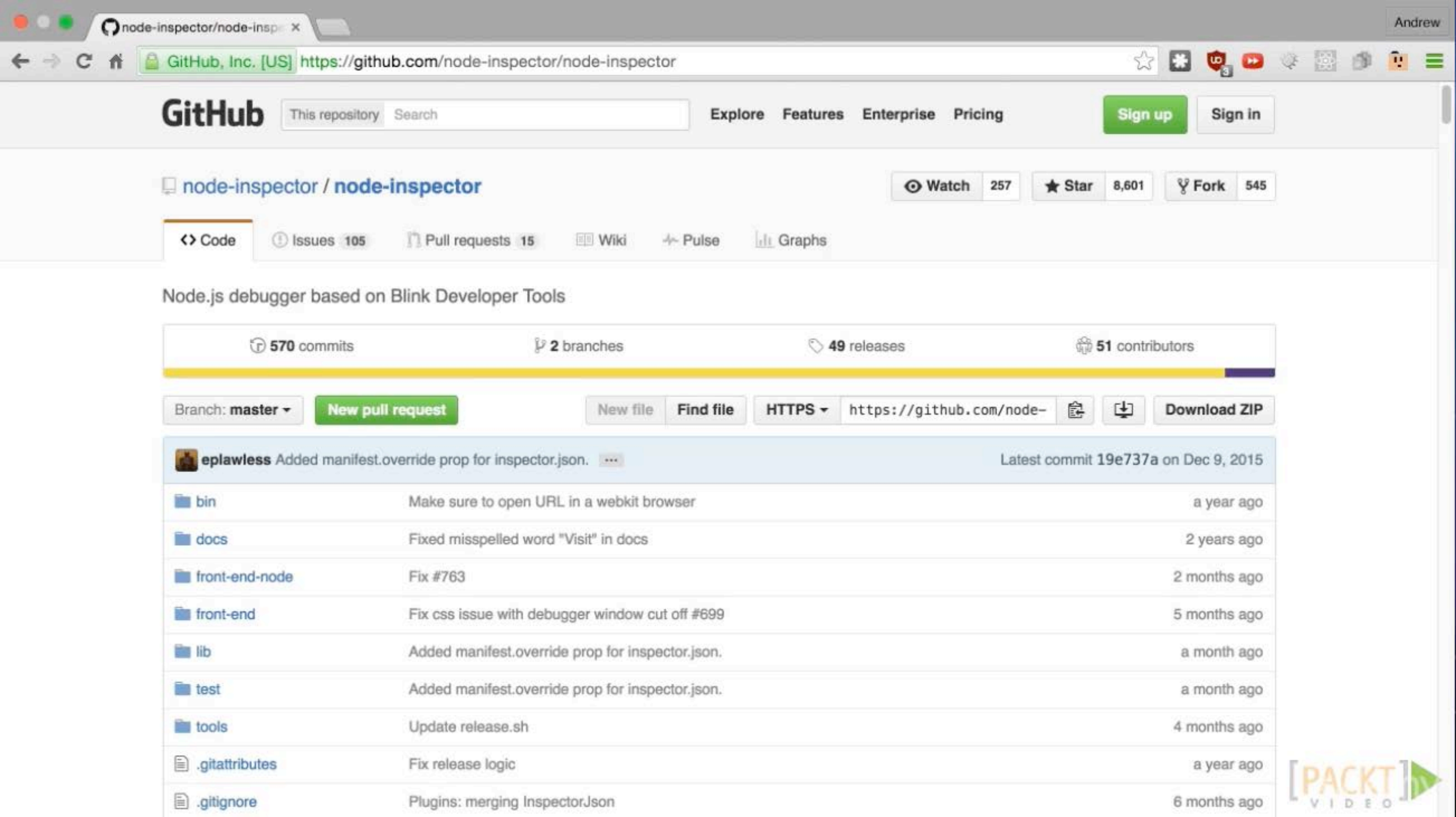
- __dirname: "/Users/ridattl..."
- __filename: "/Users/ridattl..."
- args: undefined
- availableIntensities: ymls...
- exercise: function exercise...
- reports: Object
- intensity: undefined
- module: Module
- name: undefined

Console Search Emulation Rendering

scope ☒ ignore case ☐ Regular expression







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Node.js debugger based on Blink Developer Tools

570 commits 2 branches 49 releases 51 contributors

Branch: master New pull request New file Find file HTTPS https://github.com/node- Download ZIP

eplawless Added manifest.override prop for inspector.json. Latest commit 19e737a on Dec 9, 2015

bin	Make sure to open URL in a webkit browser	a year ago
docs	Fixed misspelled word "Visit" in docs	2 years ago
front-end-node	Fix #763	2 months ago
front-end	Fix css issue with debugger window cut off #699	5 months ago
lib	Added manifest.override prop for inspector.json.	a month ago
test	Added manifest.override prop for inspector.json.	a month ago
tools	Update release.sh	4 months ago
.gitattributes	Fix release logic	a year ago
.gitignore	Plugins: merging InspectorJson	6 months ago



Summary

- Node.js basics
- Blocking versus Non-blocking code
- Setting up your environment
- Hello workout

Next Section

Understanding Node.js Apps