Web Development with Node.js and MongoDB

Andrew Marcinkevičius

Video 2.3

The Event Loop

[PACKT] Pudemy VIDEO

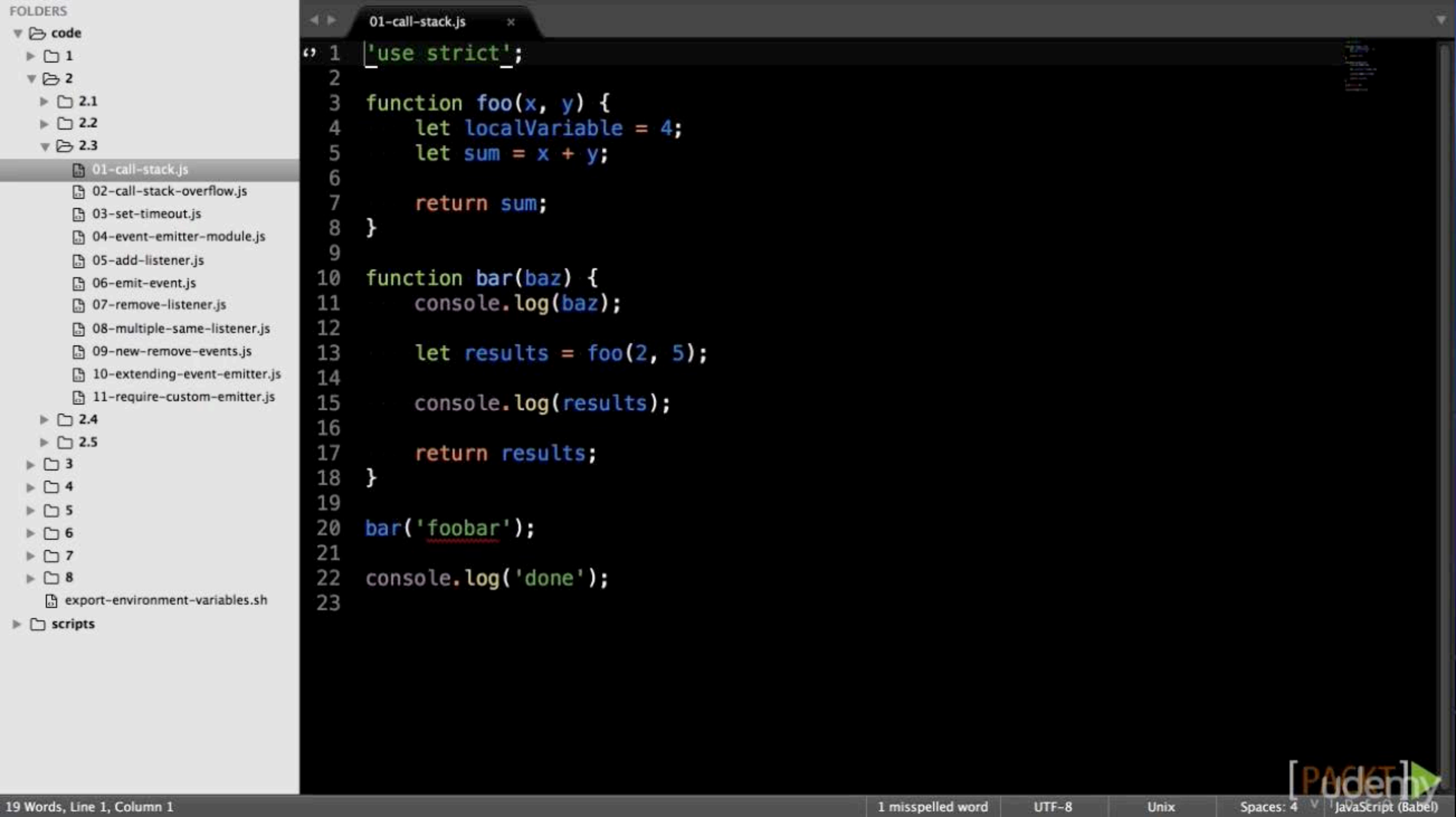
In this Video, we are going to take a look at...

- The Call Stack
- The Event Loop
- The EventEmitter

[PACKT] Udemy VIDEO

The Call Stack

- Last-In First-Out data structure
- Helpful for debugging
- Programs crash on stack overflow
- Composed of stack frames
- Stack frame: arguments, return address, and local variables
- Avoid too many function calls


FOLDERS
code
1
2
2.1
2.2
2.3
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.js
09-new-remove-events.js
10-extending-event-emitter.js
11-require-custom-emitter.js
2.4
2.5
3
4
5
6
7
8
export-environment-variables.sh
scripts
01-call-stack.js
'use strict';
function foo(x, y) {
let localVariable = 4;
let sum = x + y;
return sum;
}
function bar(baz) {
console.log(baz);
let results = foo(2, 5);
console.log(results);
return results;
}
bar('foobar');
console.log('done');
19 Words, Line 1, Column 1
1 misspelled word
UTF-8
Unix
Spaces: 4
JavaScript (Babel)

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$ node-debug 01-c
```

[PACKT] VIDEO

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$ node-debug 01-call-stack.js
Node Inspector is now available from http://127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
Debugging `01-call-stack.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
```

[PACKT] VIDEO

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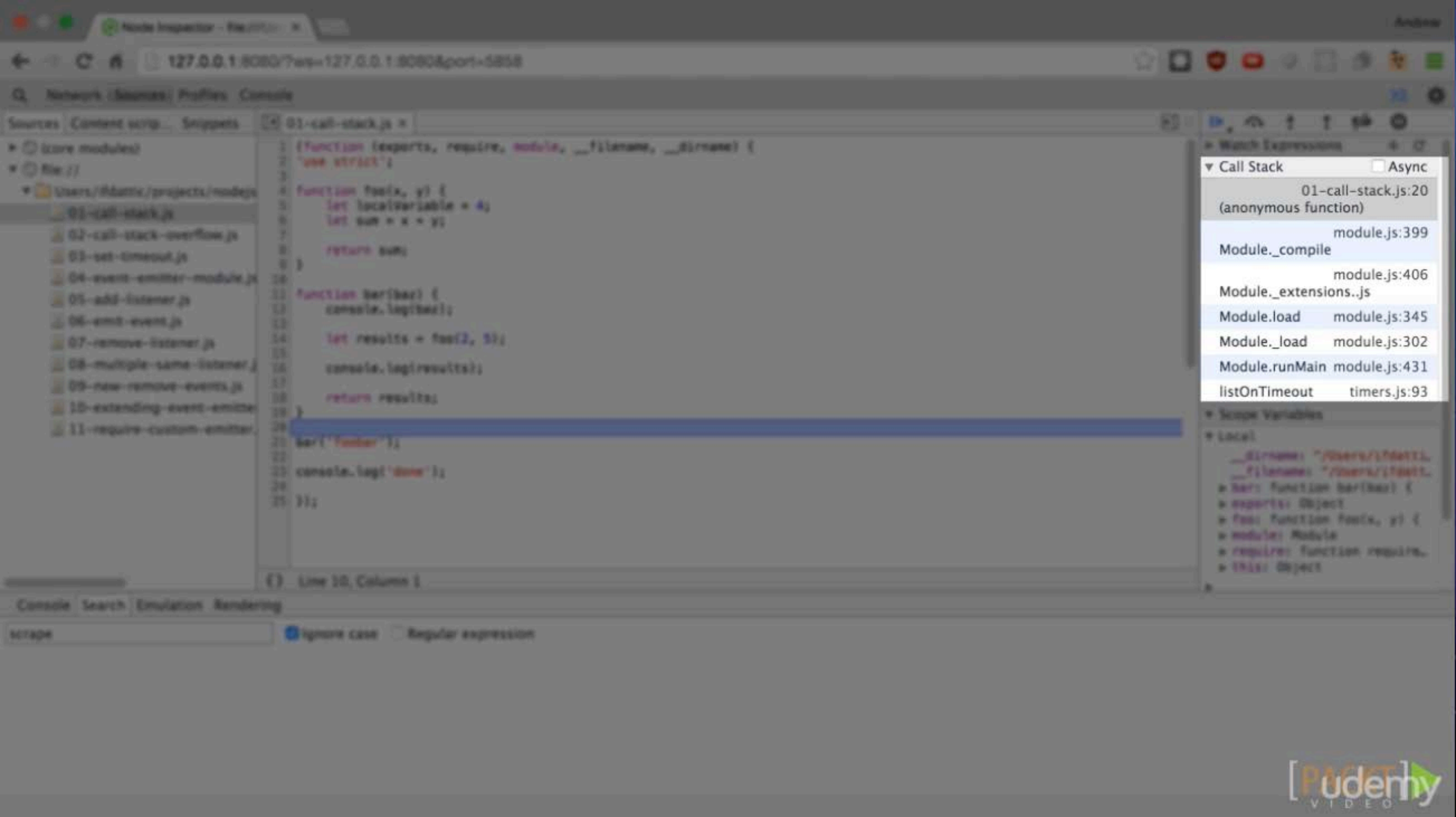
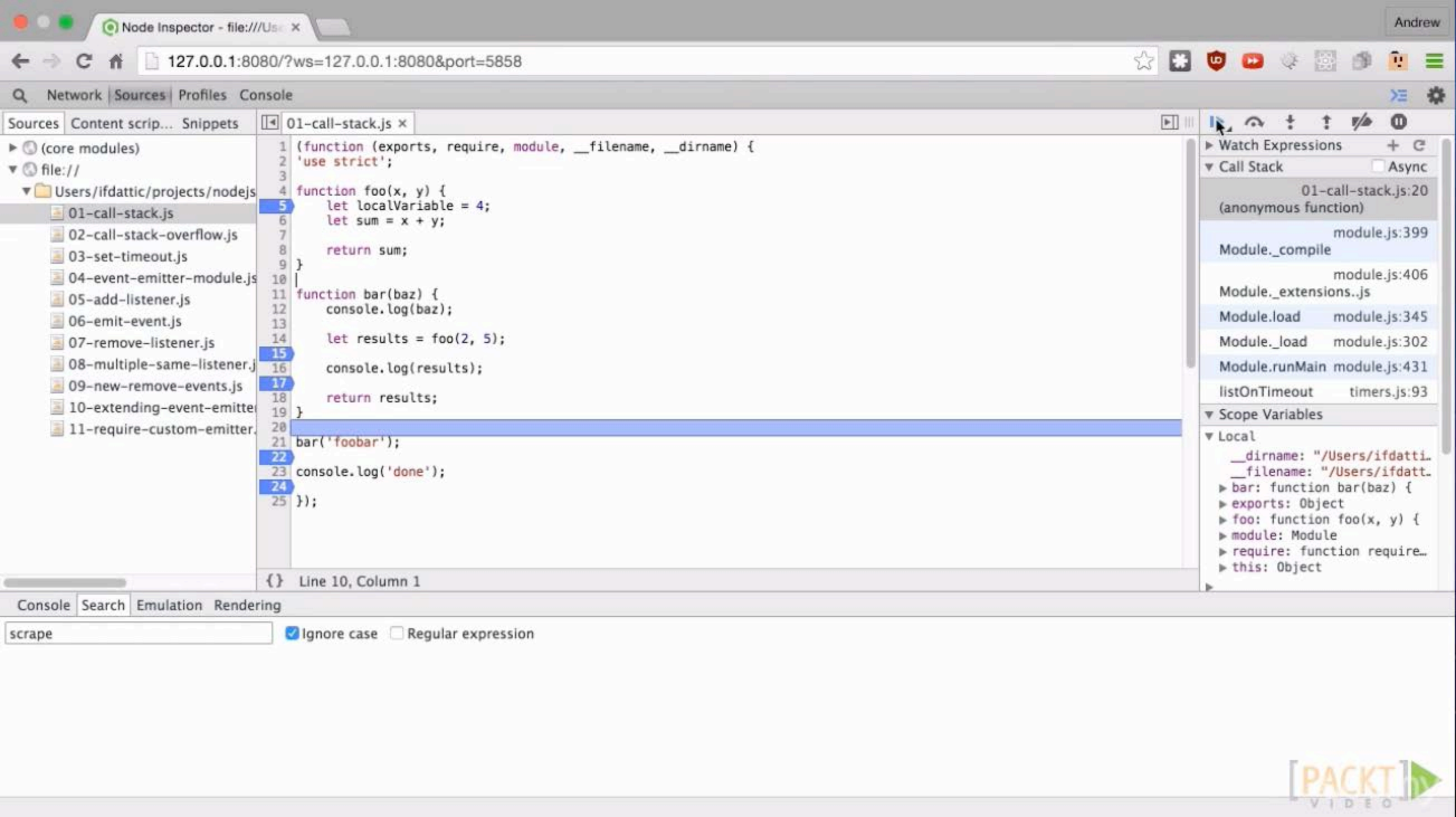

Call Stack
Async
01-call-stack.js:20
(anonymous function)
module.js:399
Module._compile
module.js:406
Module._extensions..js
Module.load module.js:345
Module._load module.js:302
Module.runMain module.js:431
listOnTimeout timers.js:93


Node Inspector - file:///Us
Andrew
127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
Network
Sources
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Console
Sources
Content scrip...
Snippets
(core modules)
file://
Users/ifdattic/projects/nodejs
01-call-stack.js
02-call-stack-overflow.js
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7
8 return sum;
9 }
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18 return results;
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25 });
{} Line 10, Column 1
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Scope Variables
Local
__dirname: "/Users/ifdatti…
__filename: "/Users/ifdatt…
bar: function bar(baz) {
exports: Object
foo: function foo(x, y) {
module: Module
require: function require…
this: Object
Console
Search
Emulation
Rendering
scrape
Ignore case
Regular expression
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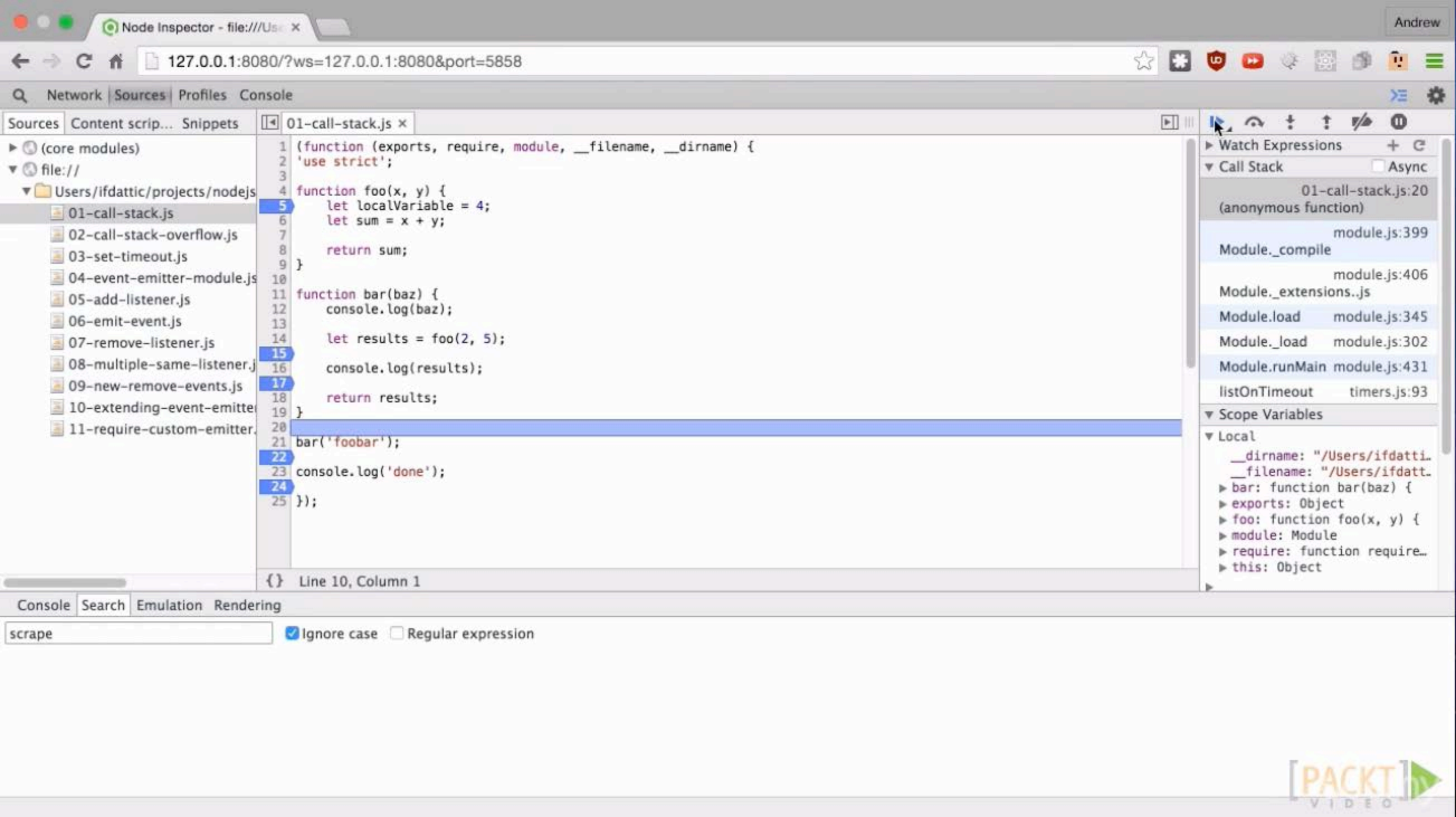
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}
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console.log(baz);
let results = foo(2, 5);
console.log(results);
return results;
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Scope Variables
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exports: Object
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require: function require
this: Object
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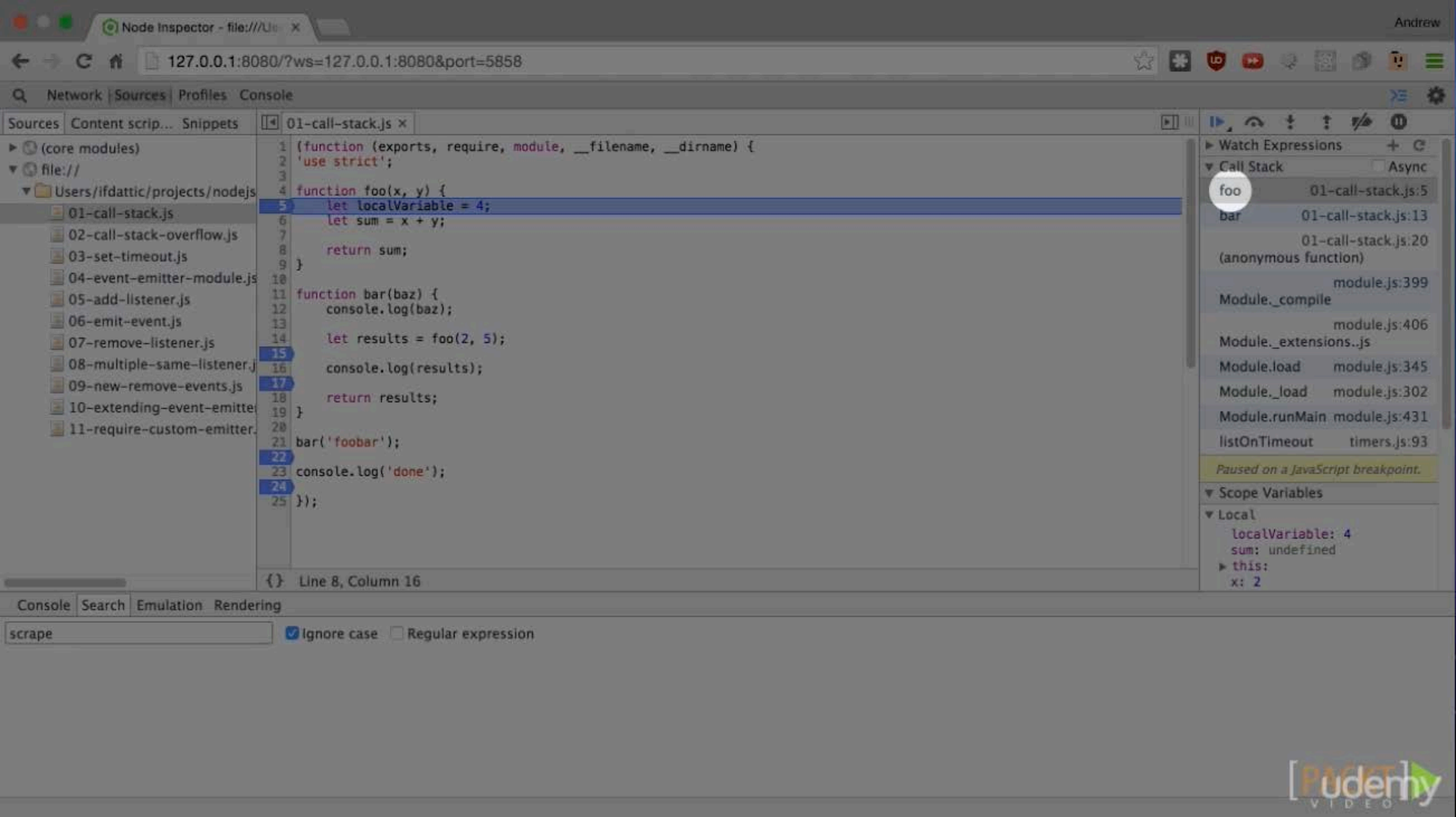
VIDEO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15
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17
18 return results;
19 }
20
21 bar('foobar');
22
23 console.log('done');
24
25 });
{} Line 8, Column 16
Watch Expressions
Call Stack
Async
foo 01-call-stack.js:5
bar 01-call-stack.js:13
01-call-stack.js:20
(anonymous function)
module.js:399
Module._compile
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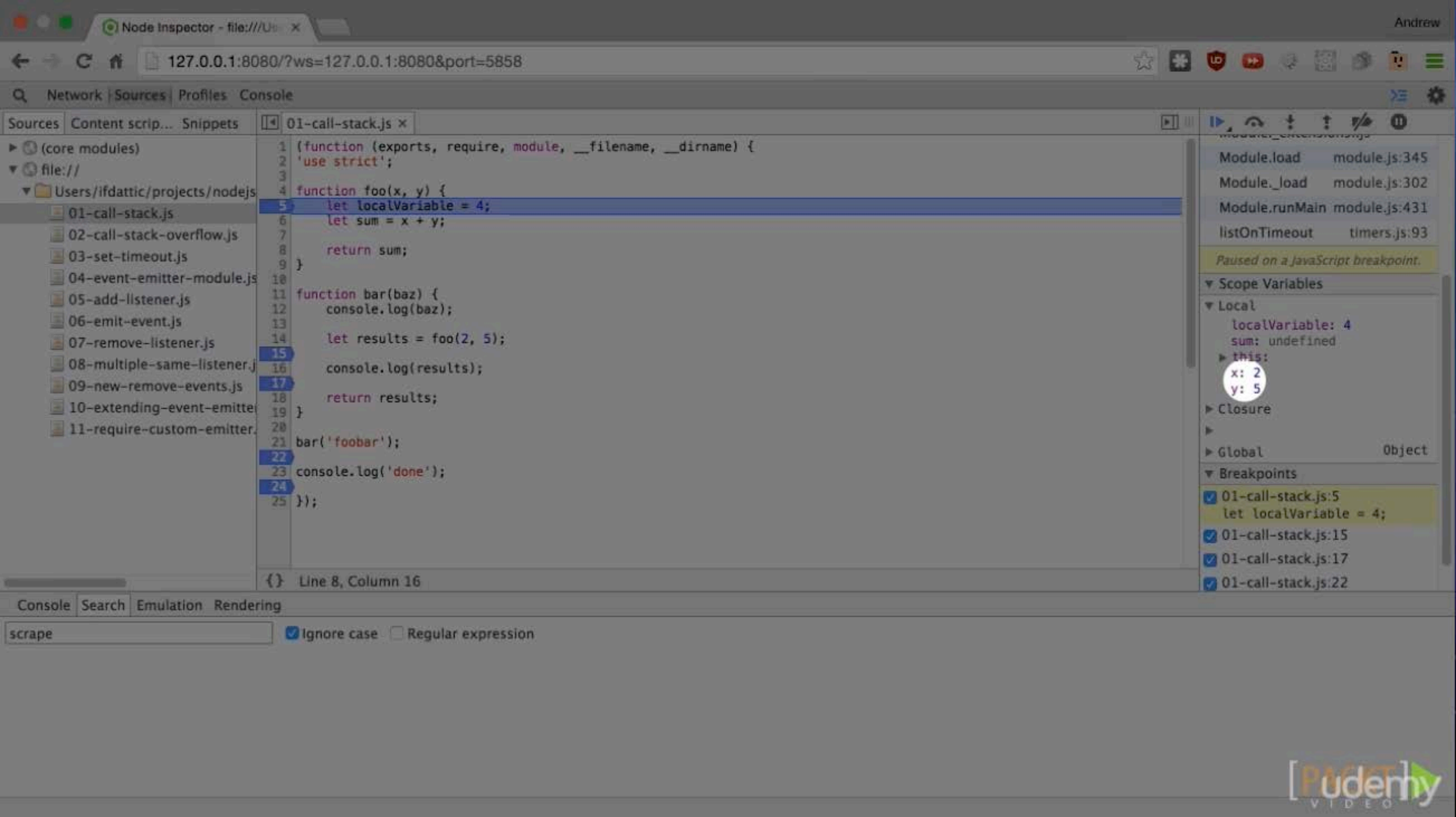
listOnTimeout timers.js:93
Paused on a JavaScript breakpoint.
Scope Variables
Local
localVariable: 4
sum: undefined
this:
x: 2
Console | Search | Emulation | Rendering
scrape
Ignore case
Regular expression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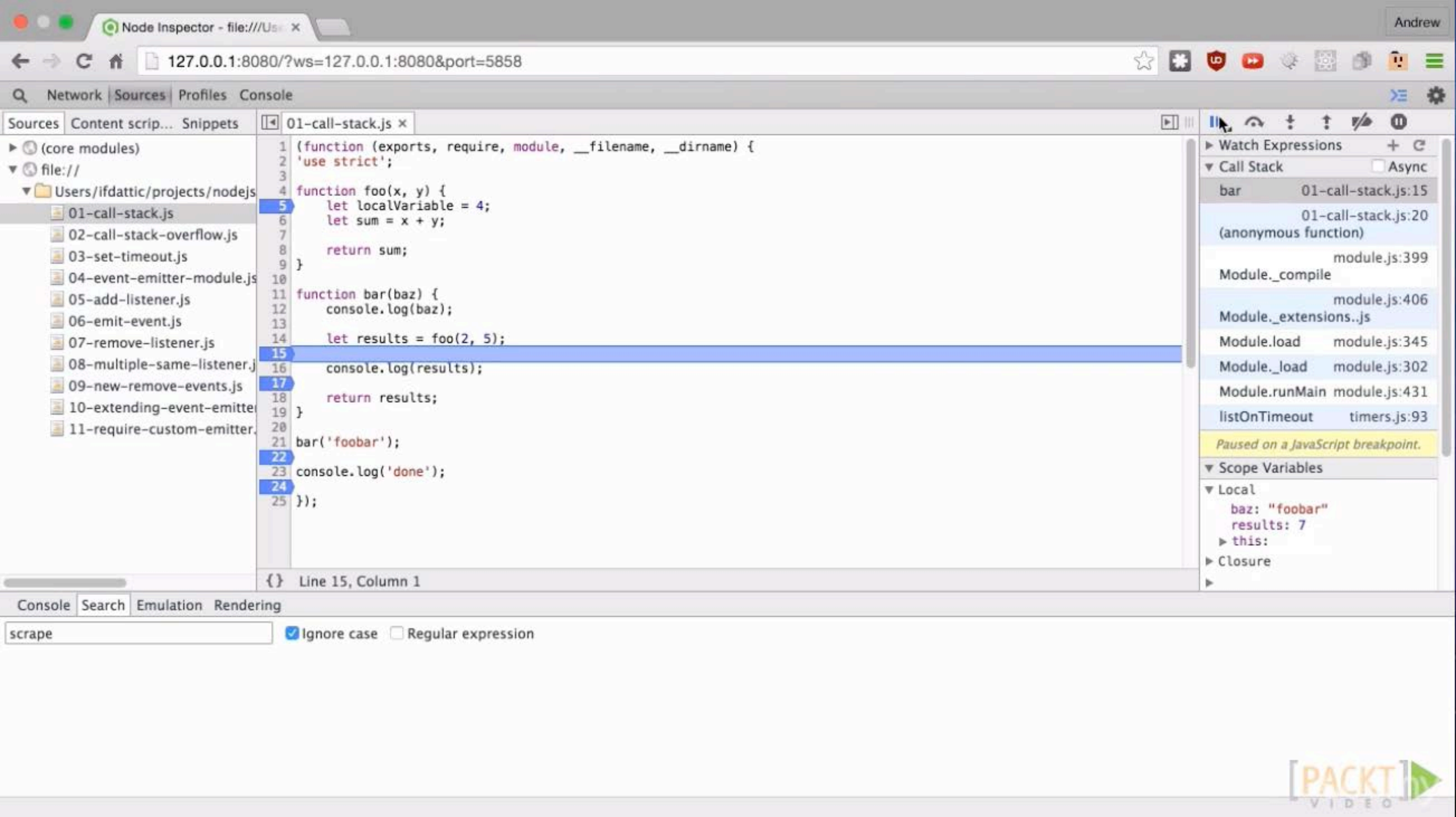
Paused on a JavaScript breakpoint.
Scope Variables
Local
localVariable: 4
sum: undefined
this:
x: 2
y: 5
Closure
Global Object
Breakpoints
01-call-stack.js:5
let localVariable = 4;
01-call-stack.js:15
01-call-stack.js:17
01-call-stack.js:22
Console Search Emulation Rendering
scrape
Ignore case
Regular expression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Line 15, Column 1
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Call Stack
Async
bar 01-call-stack.js:15
01-call-stack.js:20
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Paused on a JavaScript breakpoint.
Scope Variables
Local
baz: "foobar"
results: 7
this:
Closure
Console
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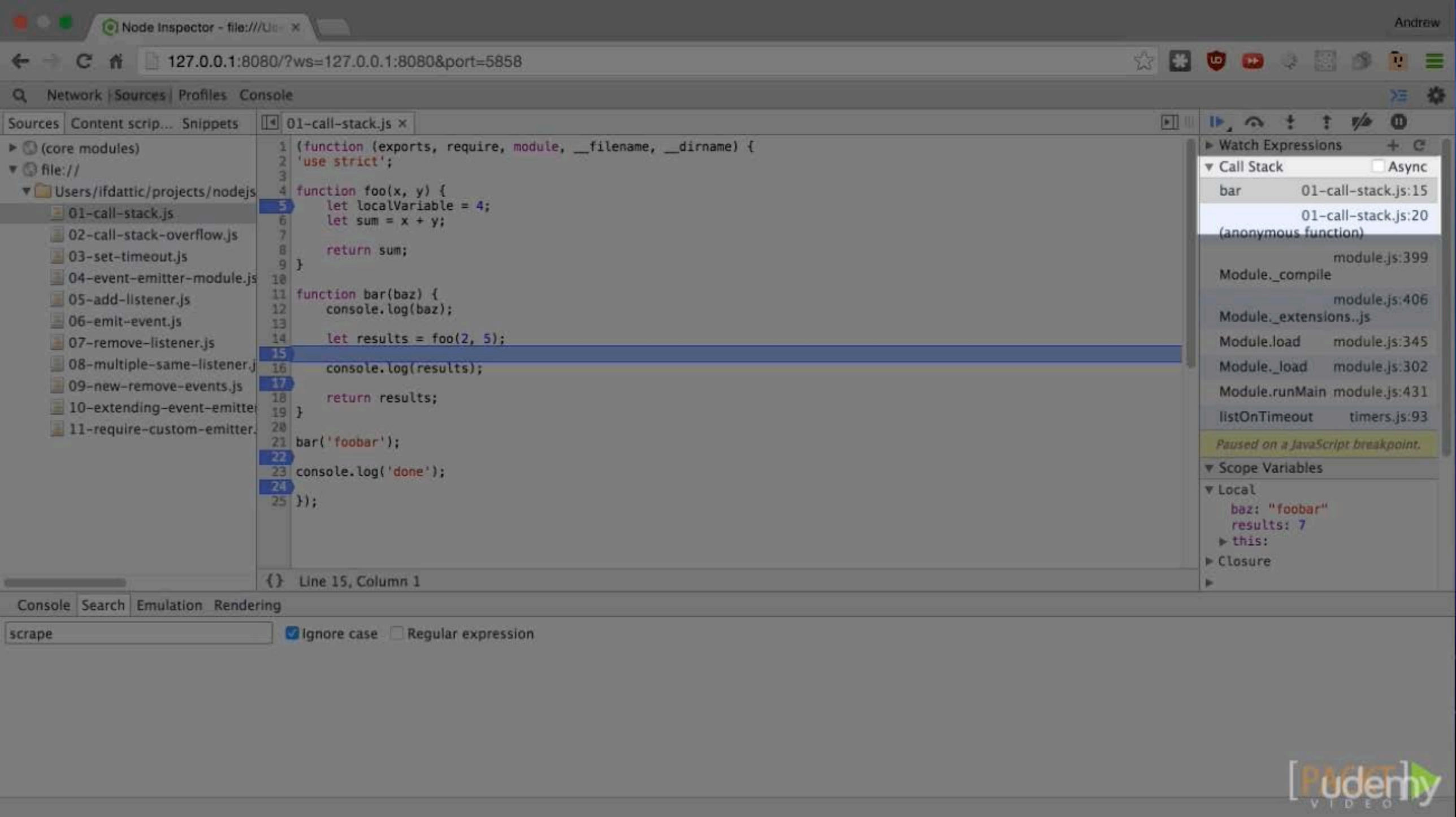
[PACKT] VIDEO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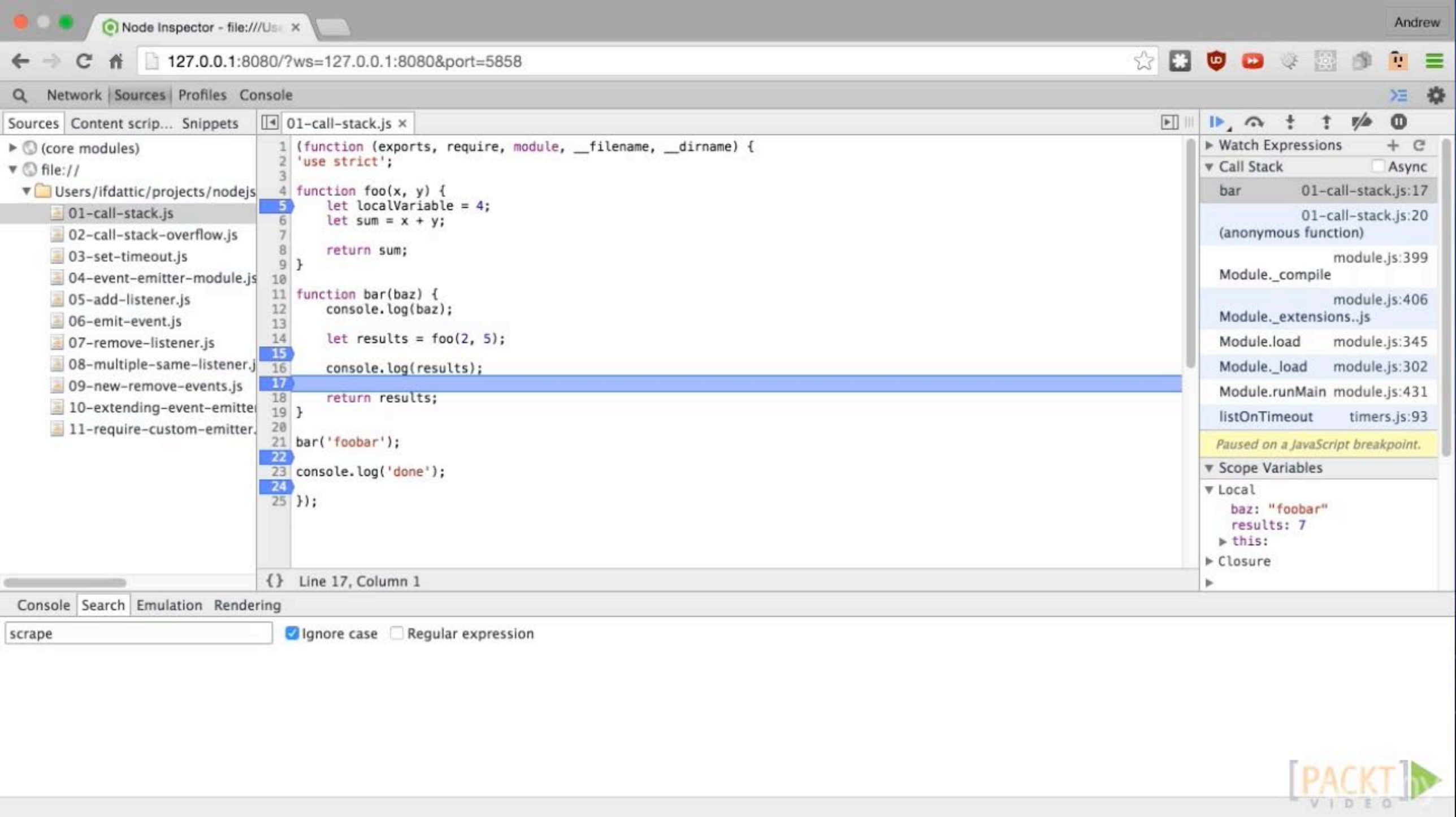
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let results = foo(2, 5);
console.log(results);
return results;
}
bar('foobar');
console.log('done');
});
{}
Line 17, Column 1
Watch Expressions
Call Stack
Async
bar 01-call-stack.js:17
01-call-stack.js:20
(anonymous function)
module.js:399
Module._compile
module.js:406
Module._extensions..js
Module.load module.js:345
Module._load module.js:302
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listOnTimeout timers.js:93
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Scope Variables
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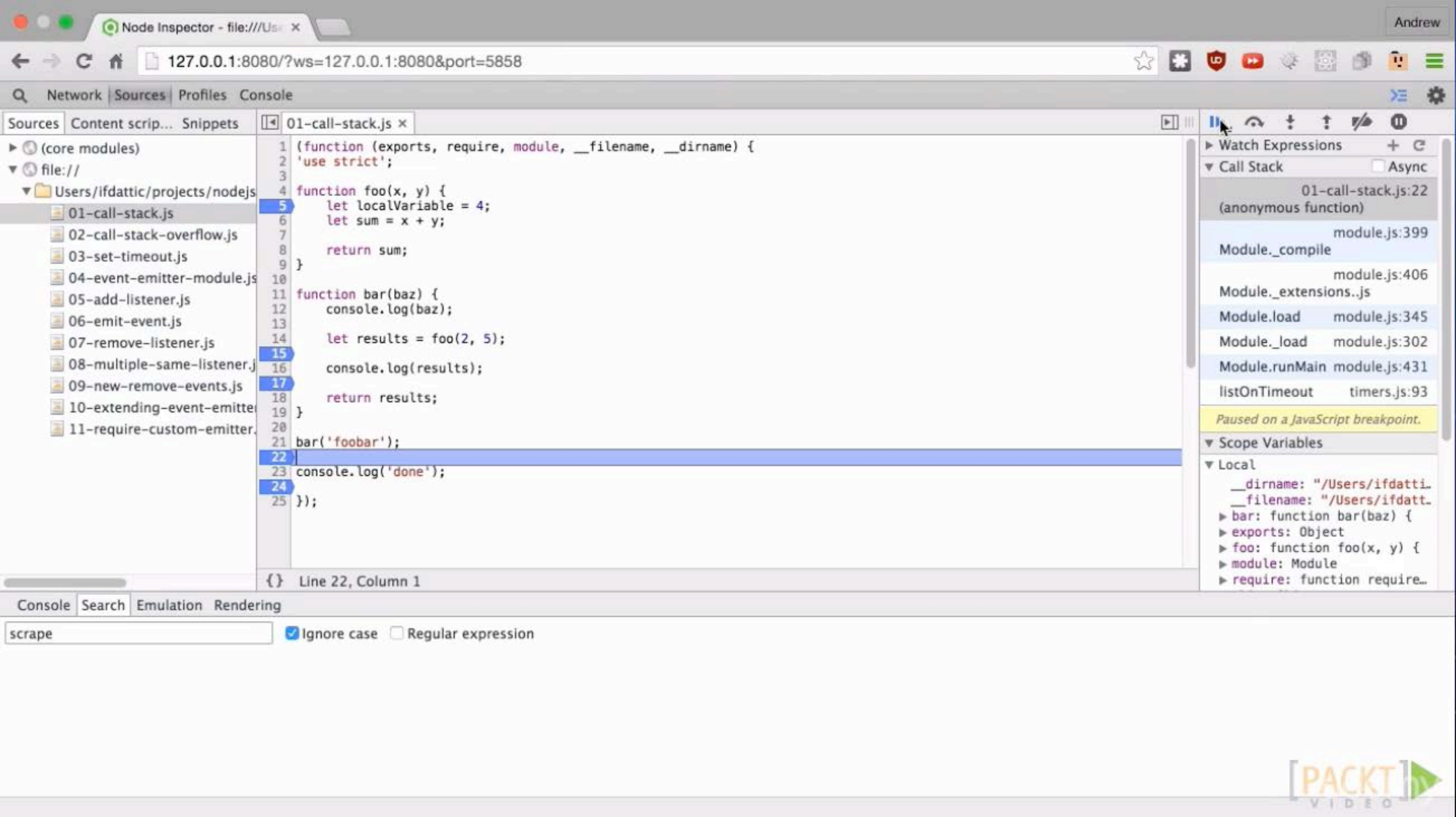
Node Inspector - file:///Us
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15
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21 bar('foobar');
22
23 console.log('done');
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25 });
{} Line 22, Column 1
Watch Expressions
Call Stack
Async
01-call-stack.js:22
(anonymous function)
module.js:399
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Module._extensions..js
Module.load module.js:345
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Scope Variables
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__filename: "/Users/ifdatt…
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exports: Object
foo: function foo(x, y) {
module: Module
require: function require…
Console
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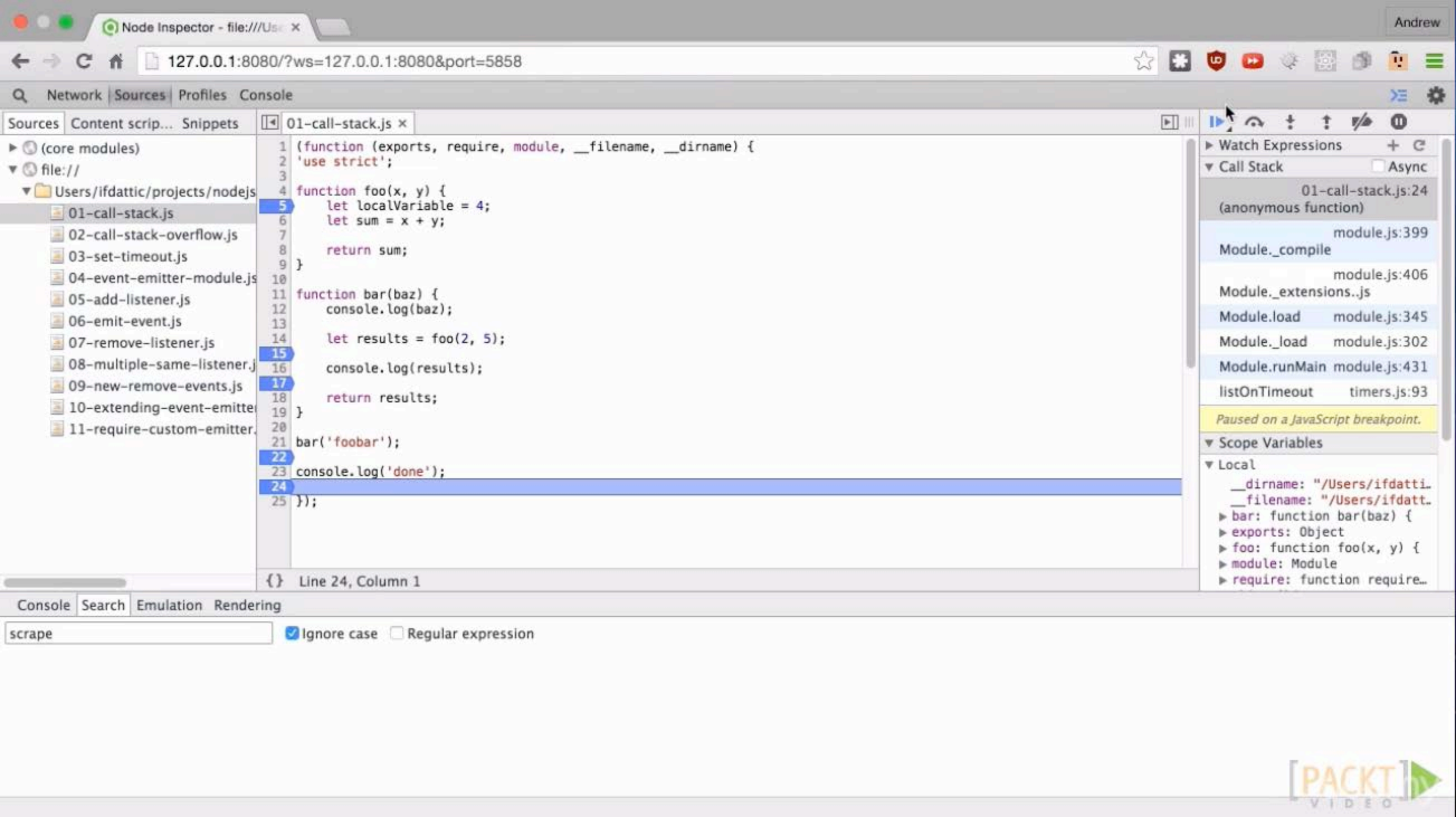
PACKT VIDEO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17
18 return results;
19 }
20
21 bar('foobar');
22
23 console.log('done');
24
25 });
{} Line 24, Column 1
Watch Expressions
Call Stack
Async
01-call-stack.js:24
(anonymous function)
module.js:399
Module._compile
module.js:406
Module._extensions..js
Module.load module.js:345
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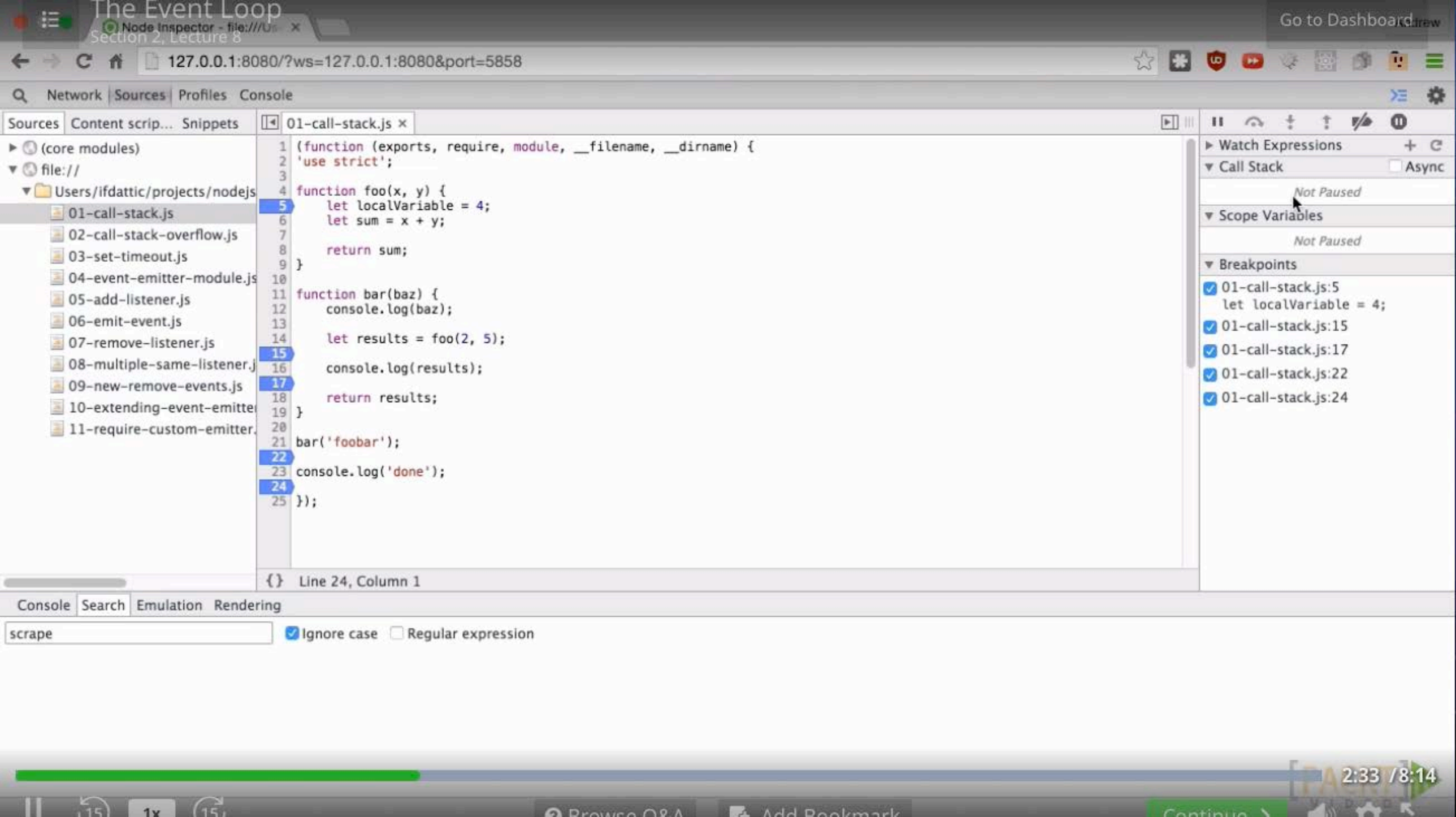
The Event Loop
Section 2, Lecture 8
Node Inspector - file:///
Go to Dashboard
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Watch Expressions
Call Stack
Async
Not Paused
Scope Variables
Not Paused
Breakpoints
01-call-stack.js:5
let localVariable = 4;
01-call-stack.js:15
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01-call-stack.js:24
Console
Search
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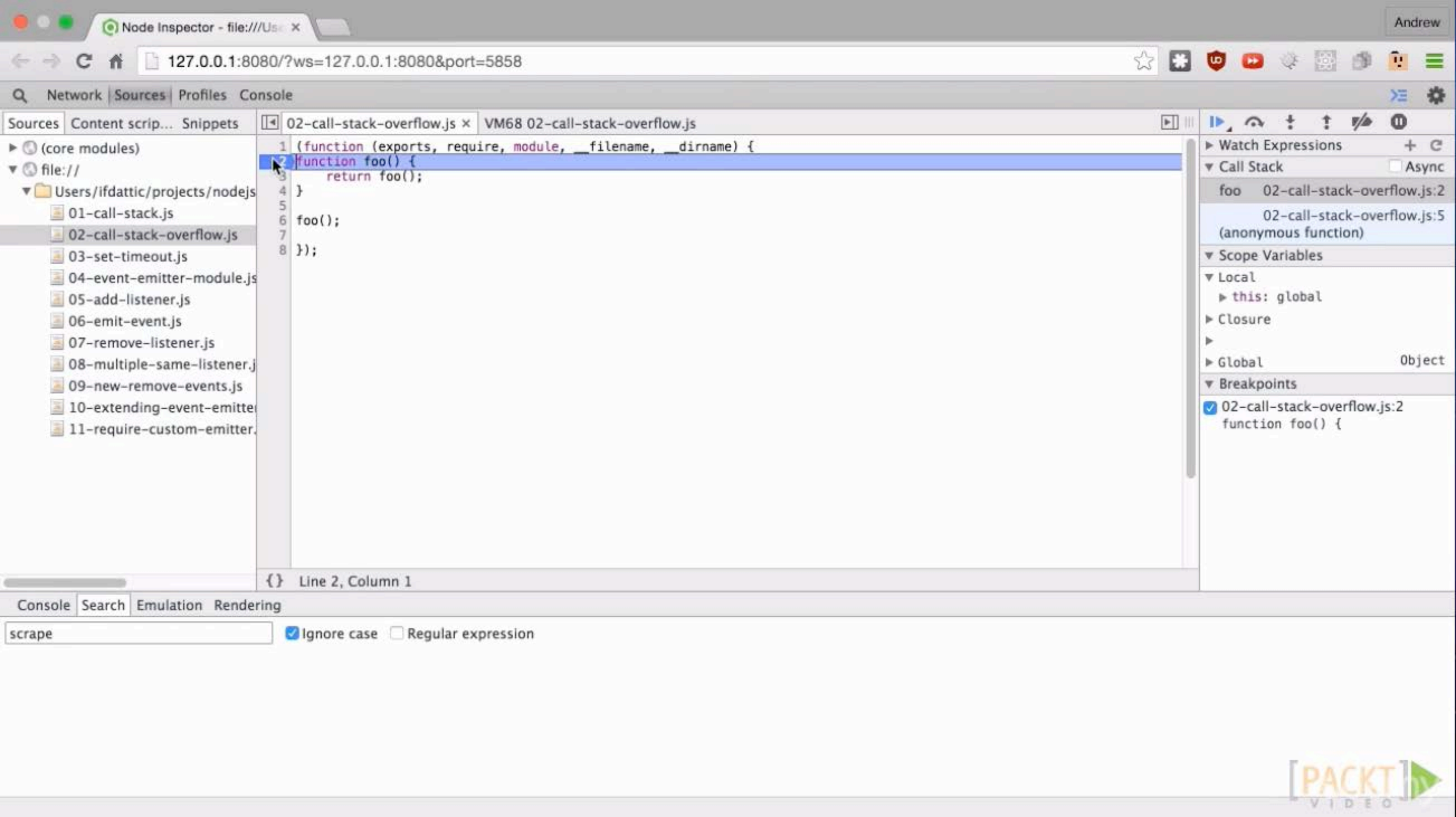
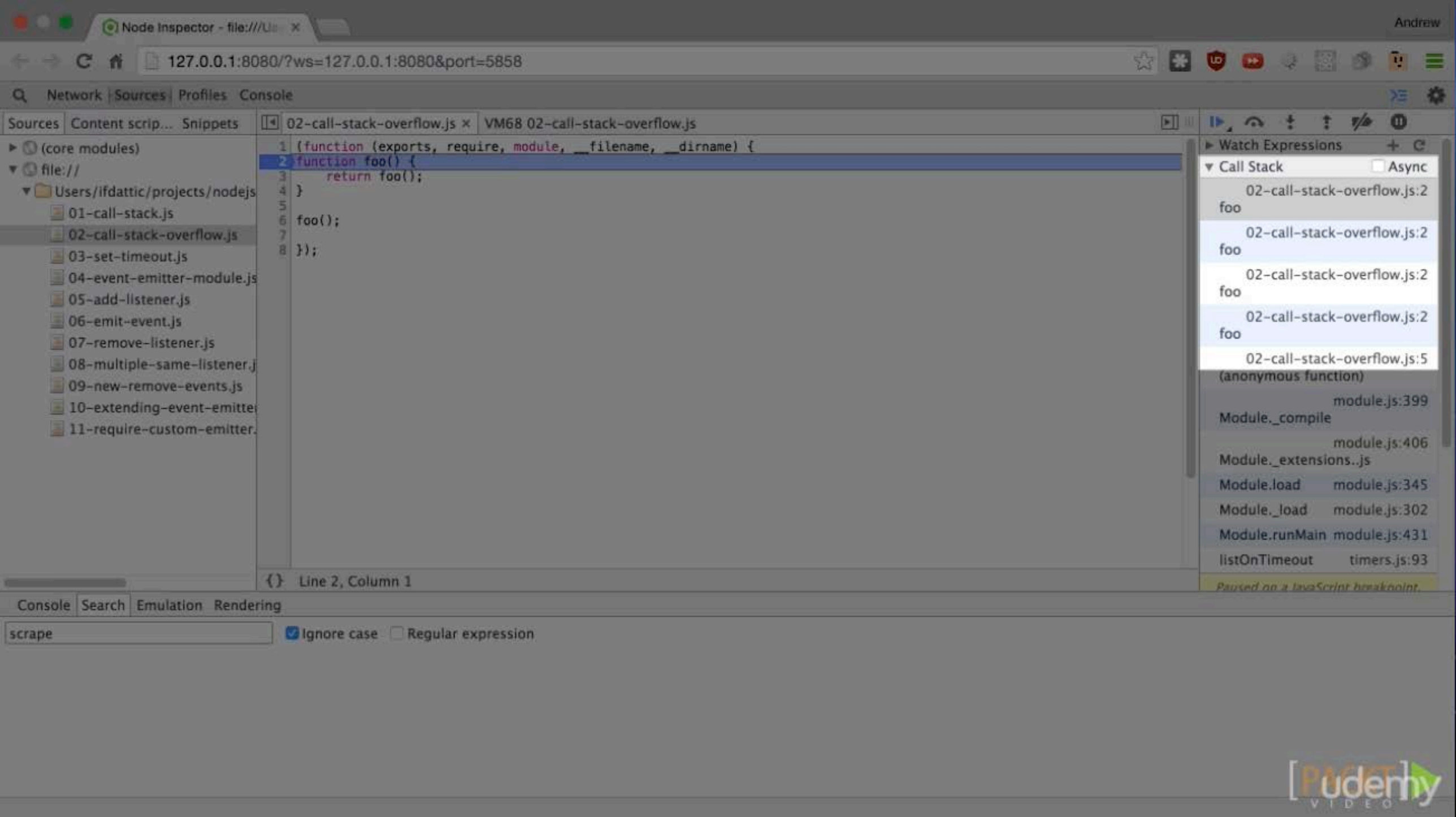
Regular expression
2:33 / 8:14
1x
Browse Q&A
Add Bookmark
Continue

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$ node-debug 02-call-stack-overflow.js
Node Inspector is now available from http://127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
Debugging `02-call-stack-overflow.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
```

[PACKT] VIDEO


Node Inspector - file:///Us
Andrew
127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
Network
Sources
Profiles
Console
Sources
Content scrip...
Snippets
(core modules)
file://
Users/ifdattic/projects/nodejs
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.j
09-new-remove-events.js
10-extending-event-emitte
11-require-custom-emitter.
02-call-stack-overflow.js
VM68 02-call-stack-overflow.js
1 (function (exports, require, module, __filename, __dirname) {
2 function foo() {
3 return foo();
4 }
5
6 foo();
7
8 });
{}
Line 2, Column 1
Watch Expressions
Call Stack
Async
foo 02-call-stack-overflow.js:2
02-call-stack-overflow.js:5
(anonymous function)
Scope Variables
Local
this: global
Closure
Global
Object
Breakpoints
02-call-stack-overflow.js:2
function foo() {
Console
Search
Emulation
Rendering
scrape
Ignore case
Regular expression
PACKT
VIDEO


Node Inspector - file:///U
Andrew
127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
Network Sources Profiles Console
Sources Content scrip... Snippets
(core modules)
file://
Users/ifdattic/projects/nodejs
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.j
09-new-remove-events.js
10-extending-event-emitte
11-require-custom-emitter.
02-call-stack-overflow.js ×
VM68 02-call-stack-overflow.js
1 (function (exports, require, module, __filename, __dirname) {
2 function foo() {
3 return foo();
4 }
5
6 foo();
7
8 });
{} Line 2, Column 1
Watch Expressions
Call Stack
Async
02-call-stack-overflow.js:2
foo
02-call-stack-overflow.js:2
foo
02-call-stack-overflow.js:2
foo
02-call-stack-overflow.js:2
foo
02-call-stack-overflow.js:5
(anonymous function)
module.js:399
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:93
Paused on a JavaScript breakpoint.
Console Search Emulation Rendering
scrape
Ignore case
Regular expression

Node Inspector - file:///Us

Andrew

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

Detached from the target

Remote debugging has been terminated with reason:
Please re-attach to the new target.

Users/ifdattic/projects/nodejs
- 01-call-stack.js
- 02-call-stack-overflow.js
- 03-set-timeout.js
- 04-event-emitter-module.js
- 05-add-listener.js
- 06-emit-event.js
- 07-remove-listener.js
- 08-multiple-same-listener.j
- 09-new-remove-events.js
- 10-extending-event-emitte
- 11-require-custom-emitter.

```
4 }
5
6 foo();
7
8 });
```

{} Line 2, Column 1

Watch Expressions

Call Stack — Async

Not Paused

Scope Variables

Not Paused

Breakpoints

No Breakpoints

Console | Search | Emulation | Rendering

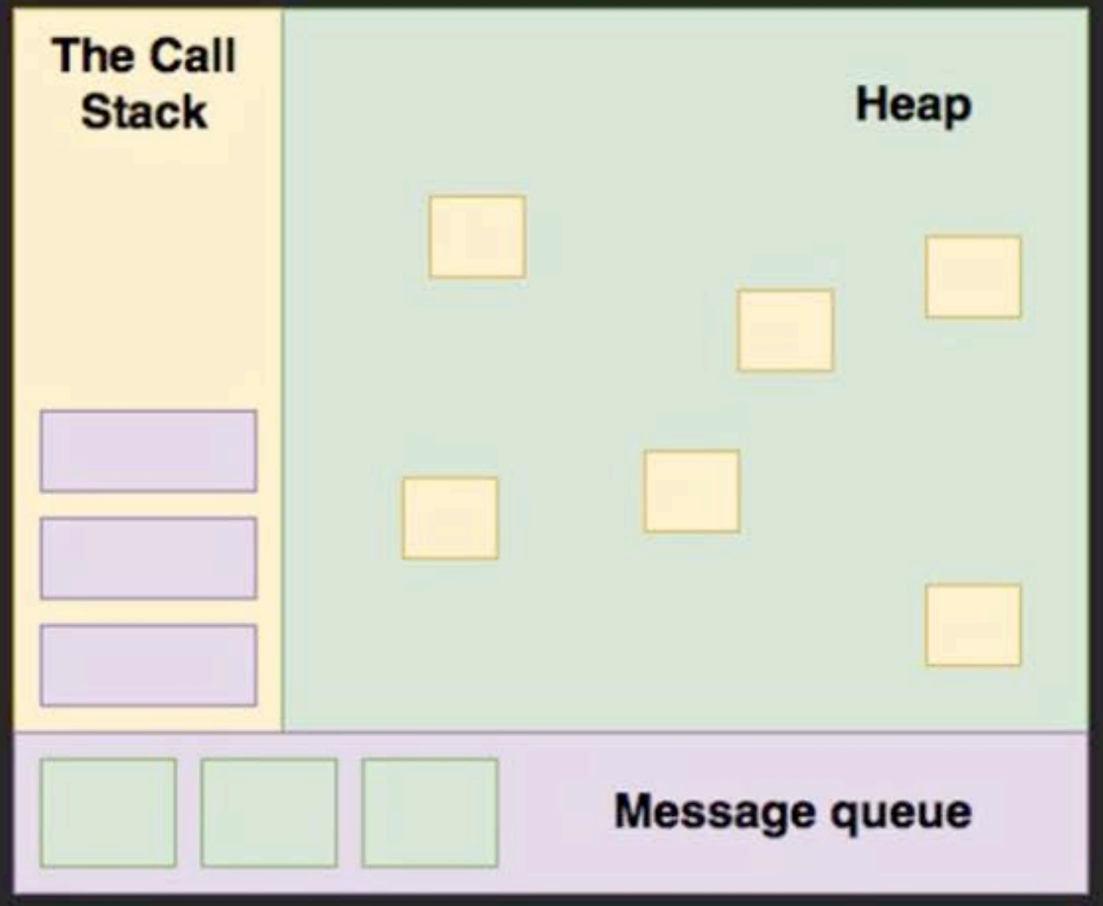
scrape — Ignore case — Regular expression

[PACKT] VIDEO

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$ node-debug 02-call-stack-overflow.js
Node Inspector is now available from http://127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
Debugging `02-call-stack-overflow.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
/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:1
function foo() {
          ^

RangeError: Maximum call stack size exceeded
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:1:13)
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:2:12)
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:2:12)
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:2:12)
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:2:12)
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:2:12)
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:2:12)
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:2:12)
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:2:12)
    at foo (/Users/ifdattic/projects/nodejs-mongodb-video-course/code/2/2.3/02-call-stack-overflow.js:2:12)

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$
```

[PACKT] Pudenhy VIDEO

The Event Loop



The Event Loop

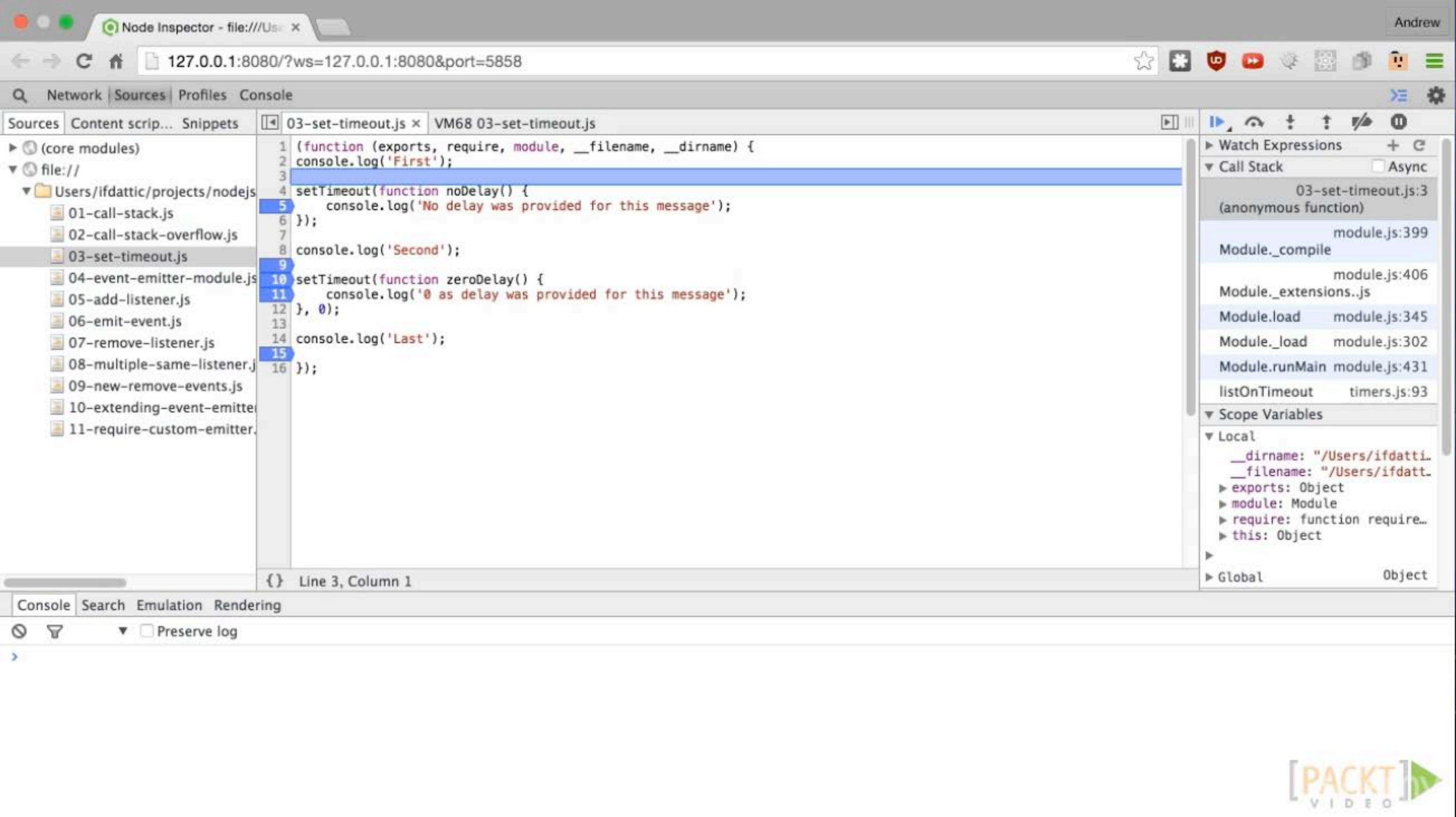
- Single thread
- Quick execution
- Separate processes

[PACKT] Pudemy VIDEO

The Event Loop

setTimeout(callback, delay[, arg][, ...])

[PACKT] Pudemy VIDEO


Node Inspector - file:///Us
Andrew
127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
Network
Sources
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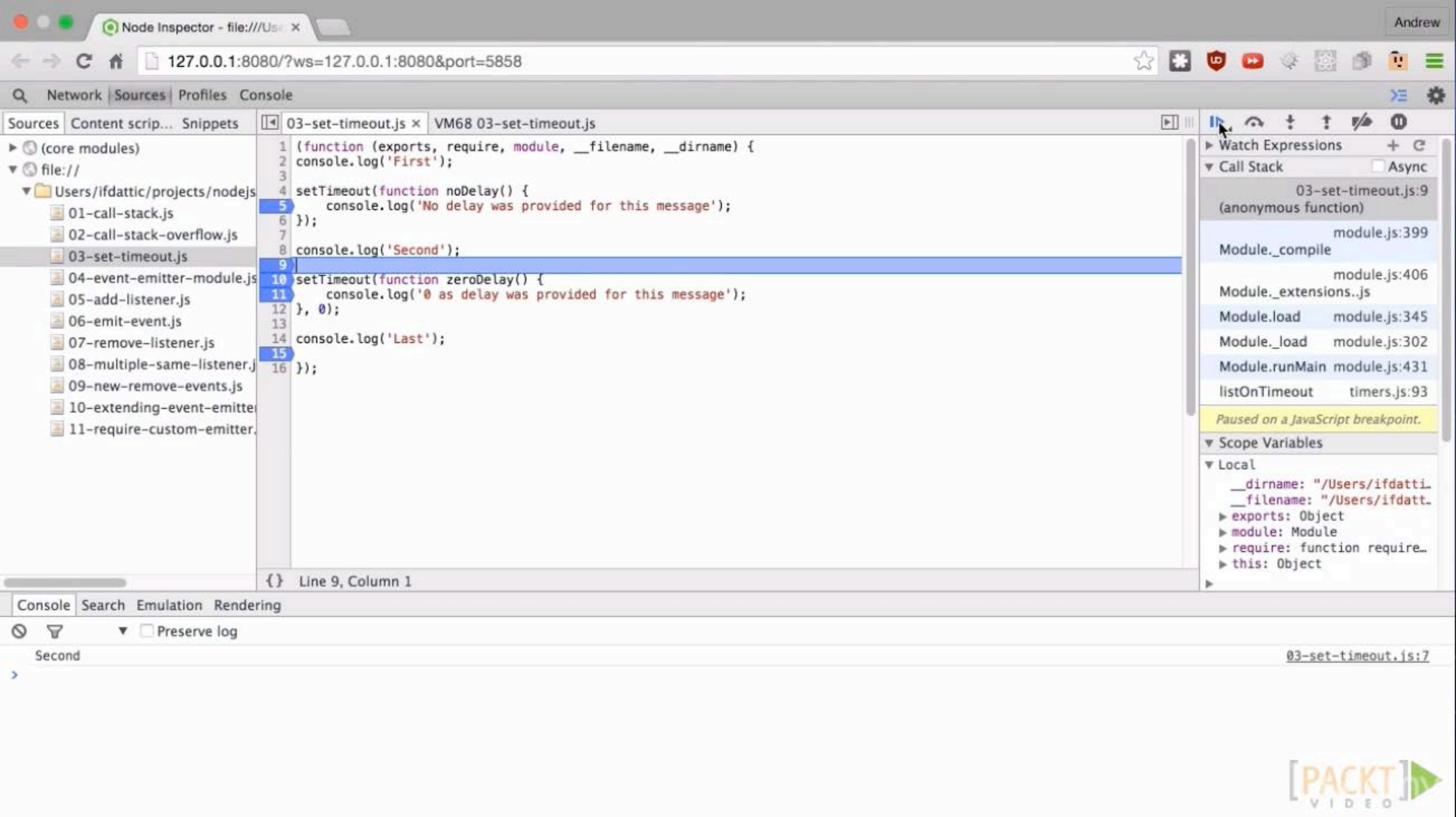
Content scrip...
Snippets
03-set-timeout.js
VM68 03-set-timeout.js
(core modules)
file://
Users/ifdattic/projects/nodejs
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.j
09-new-remove-events.js
10-extending-event-emitte
11-require-custom-emitter.
(function (exports, require, module, __filename, __dirname) {
console.log('First');
setTimeout(function noDelay() {
console.log('No delay was provided for this message');
});
console.log('Second');
setTimeout(function zeroDelay() {
console.log('0 as delay was provided for this message');
}, 0);
console.log('Last');
});
{}
Line 3, Column 1
Watch Expressions
Call Stack
Async
03-set-timeout.js:3
(anonymous function)
module.js:399
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:93
Scope Variables
Local
__dirname: "/Users/ifdatti…
__filename: "/Users/ifdatt…
exports: Object
module: Module
require: function require…
this: Object
Global
Object
Console
Search
Emulation
Rendering
Preserve log
[PACKT] VIDEO


Node Inspector - file:///Us
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Network
Sources
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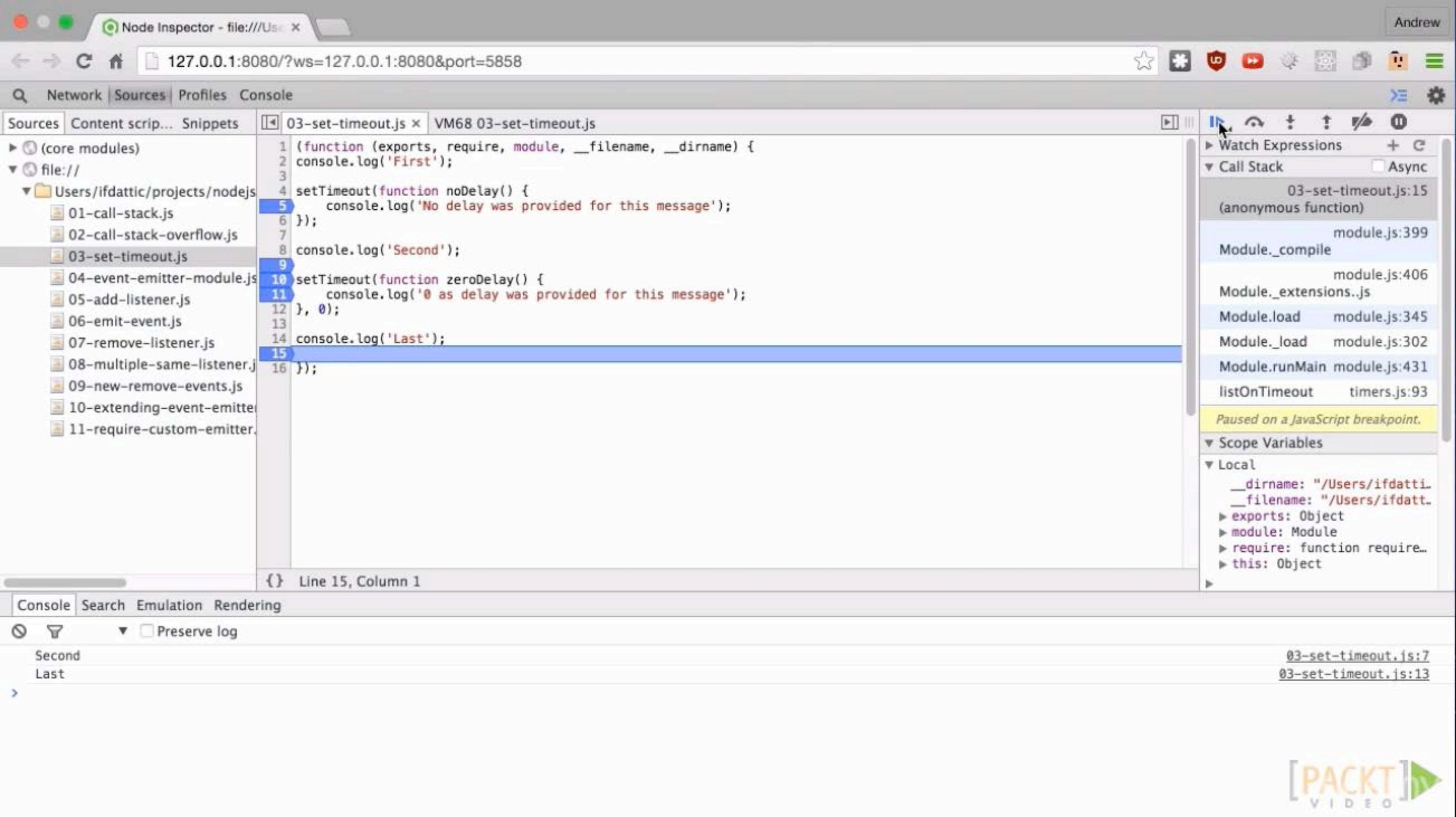
Sources
Content scrip...
Snippets
(core modules)
file://
Users/ifdattic/projects/nodejs
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.j
09-new-remove-events.js
10-extending-event-emitte
11-require-custom-emitter.
03-set-timeout.js
VM68 03-set-timeout.js
1 (function (exports, require, module, __filename, __dirname) {
2 console.log('First');
3
4 setTimeout(function noDelay() {
5 console.log('No delay was provided for this message');
6 });
7
8 console.log('Second');
9
10 setTimeout(function zeroDelay() {
11 console.log('0 as delay was provided for this message');
12 }, 0);
13
14 console.log('Last');
15
16 });
{} Line 9, Column 1
Watch Expressions
Call Stack
Async
03-set-timeout.js:9
(anonymous function)
module.js:399
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:93
Paused on a JavaScript breakpoint.
Scope Variables
Local
__dirname: "/Users/ifdatti…
__filename: "/Users/ifdatt…
exports: Object
module: Module
require: function require…
this: Object
Console
Search
Emulation
Rendering
Preserve log
Second
03-set-timeout.js:7
[PACKT] VIDEO


Node Inspector - file:///Us
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127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
Network
Sources
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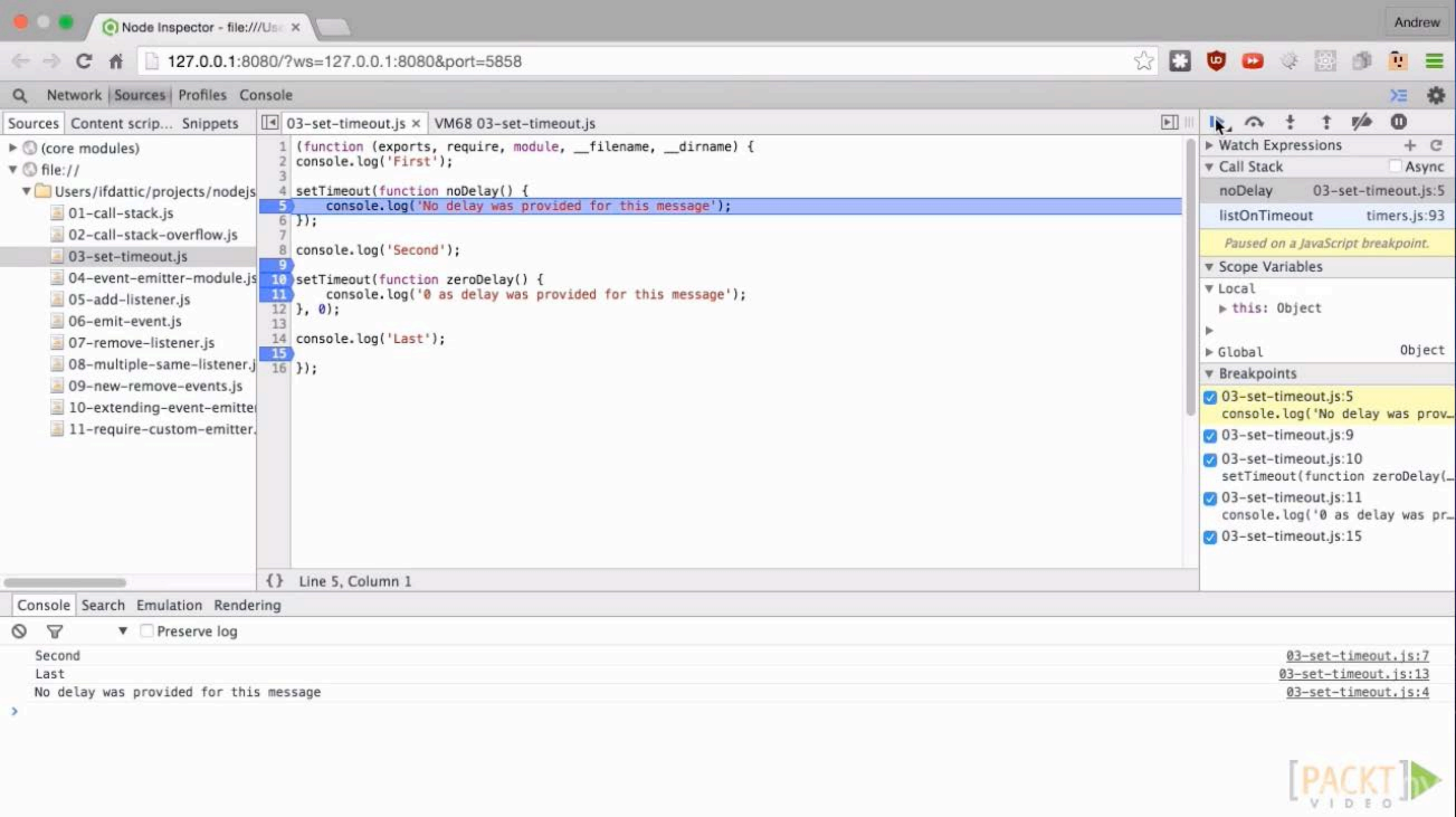
Sources
Content scrip...
Snippets
03-set-timeout.js
VM68 03-set-timeout.js
(core modules)
file://
Users/ifdattic/projects/nodejs
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.j
09-new-remove-events.js
10-extending-event-emitte
11-require-custom-emitter.
(function (exports, require, module, __filename, __dirname) {
console.log('First');
setTimeout(function noDelay() {
console.log('No delay was provided for this message');
});
console.log('Second');
setTimeout(function zeroDelay() {
console.log('0 as delay was provided for this message');
}, 0);
console.log('Last');
});
{}
Line 15, Column 1
Watch Expressions
Call Stack
Async
03-set-timeout.js:15
(anonymous function)
module.js:399
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:93
Paused on a JavaScript breakpoint.
Scope Variables
Local
__dirname: "/Users/ifdatti…
__filename: "/Users/ifdatt…
exports: Object
module: Module
require: function require…
this: Object
Console
Search
Emulation
Rendering
Preserve log
Second
03-set-timeout.js:7
Last
03-set-timeout.js:13
[PACKT] VIDEO


Node Inspector - file:///Us
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127.0.0.1:8080/?ws=127.0.0.1:8080&port=5858
Network
Sources
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Content scrip...
Snippets
(core modules)
file://
Users/ifdattic/projects/nodejs
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.j
09-new-remove-events.js
10-extending-event-emitte
11-require-custom-emitter.
03-set-timeout.js
VM68 03-set-timeout.js
(function (exports, require, module, __filename, __dirname) {
console.log('First');
setTimeout(function noDelay() {
console.log('No delay was provided for this message');
});
console.log('Second');
setTimeout(function zeroDelay() {
console.log('0 as delay was provided for this message');
}, 0);
console.log('Last');
});
{}
Line 5, Column 1
Watch Expressions
Call Stack
Async
noDelay
03-set-timeout.js:5
listOnTimeout
timers.js:93
Paused on a JavaScript breakpoint.
Scope Variables
Local
this: Object
Global
Object
Breakpoints
03-set-timeout.js:5
console.log('No delay was prov
03-set-timeout.js:9
03-set-timeout.js:10
setTimeout(function zeroDelay(
03-set-timeout.js:11
console.log('0 as delay was pr
03-set-timeout.js:15
Console
Search
Emulation
Rendering
Preserve log
Second
03-set-timeout.js:7
Last
03-set-timeout.js:13
No delay was provided for this message
03-set-timeout.js:4
[PACKT] VIDEO

Node Inspector - file:///Us

Andrew

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Network | Sources | Profiles | Console

Sources | Content scrip... | Snippets

- (core modules)
- file://
  - Users/ifdattic/projects/nodejs
    - 01-call-stack.js
    - 02-call-stack-overflow.js
    - 03-set-timeout.js
    - 04-event-emitter-module.js
    - 05-add-listener.js
    - 06-emit-event.js
    - 07-remove-listener.js
    - 08-multiple-same-listener.j
    - 09-new-remove-events.js
    - 10-extending-event-emitte
    - 11-require-custom-emitter.

03-set-timeout.js × | VM68 03-set-timeout.js

```
1  (function (exports, require, module, __filename, __dirname) {
2  console.log('First');
3
4  setTimeout(function noDelay() {
5      console.log('No delay was provided for this message');
6  });
7
8  console.log('Second');
9
10 setTimeout(function zeroDelay() {
11     console.log('0 as delay was provided for this message');
12 }, 0);
13
14 console.log('Last');
15
16 });
```

{} Line 11, Column 1

Watch Expressions

Call Stack | Async

zeroDelay 03-set-timeout.js:11

listOnTimeout timers.js:93

Paused on a JavaScript breakpoint.

Scope Variables

Local

this: Object

Global Object

Breakpoints

- 03-set-timeout.js:5
  console.log('No delay was prov…
- 03-set-timeout.js:9
- 03-set-timeout.js:10
  setTimeout(function zeroDelay(…
- 03-set-timeout.js:11
  console.log('0 as delay was pr…
- 03-set-timeout.js:15

Console | Search | Emulation | Rendering

Preserve log

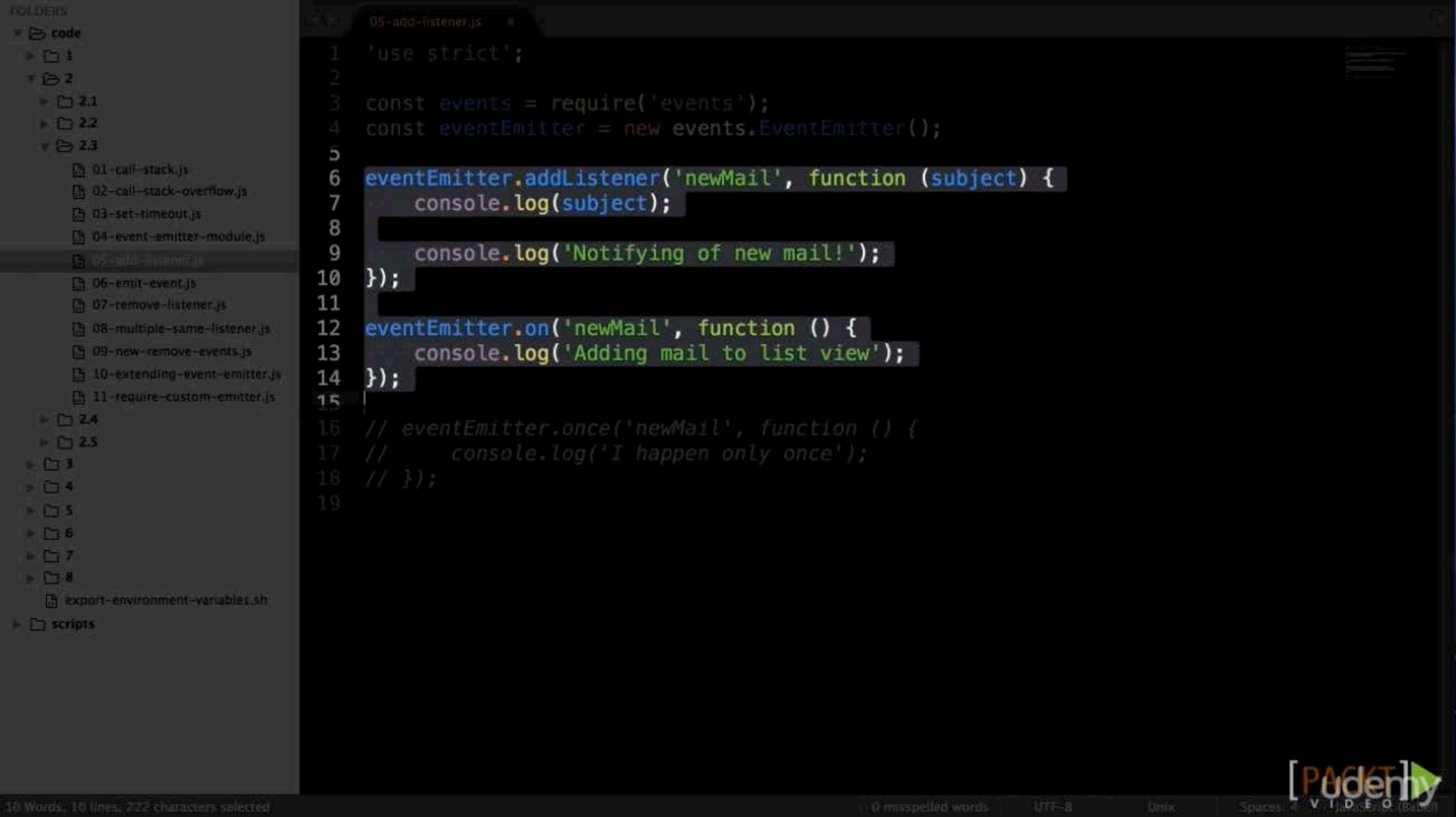
```
Second                                                    03-set-timeout.js:7
Last                                                      03-set-timeout.js:13
No delay was provided for this message                    03-set-timeout.js:4
0 as delay was provided for this message                  03-set-timeout.js:10
>
```

[PACKT] VIDEO

The EventEmitter

- Generic wrapper
- Execute functions on events
- Functions => listeners

[PACKT] Pudemy VIDEO



FOLDERS

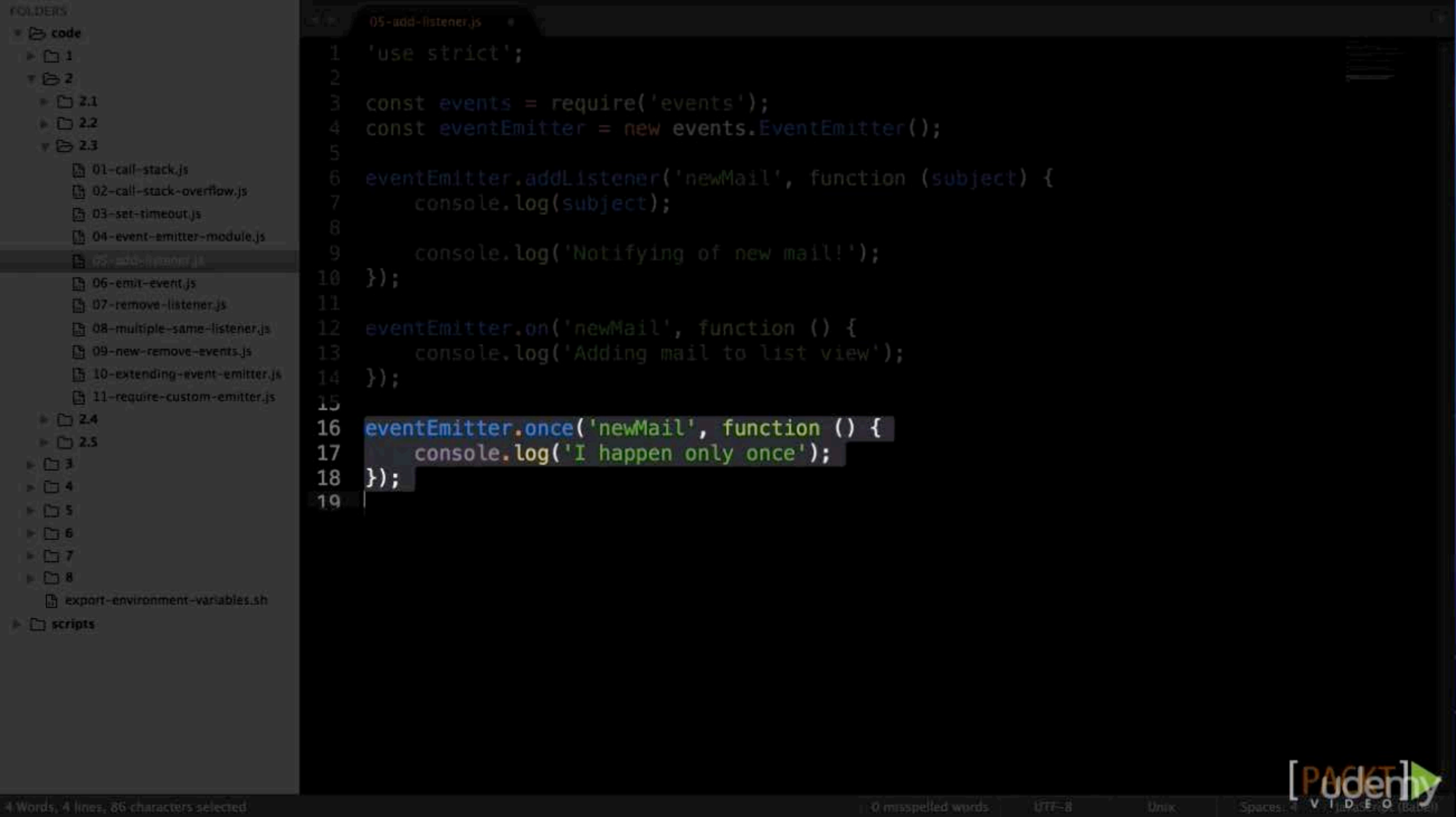
- code
  - 1
  - 2
    - 2.1
    - 2.2
    - 2.3
      - 01-call-stack.js
      - 02-call-stack-overflow.js
      - 03-set-timeout.js
      - 04-event-emitter-module.js
      - 05-add-listener.js
      - 06-emit-event.js
      - 07-remove-listener.js
      - 08-multiple-same-listener.js
      - 09-new-remove-events.js
      - 10-extending-event-emitter.js
      - 11-require-custom-emitter.js
    - 2.4
    - 2.5
  - 3
  - 4
  - 5
  - 6
  - 7
  - 8
    - export-environment-variables.sh
- scripts

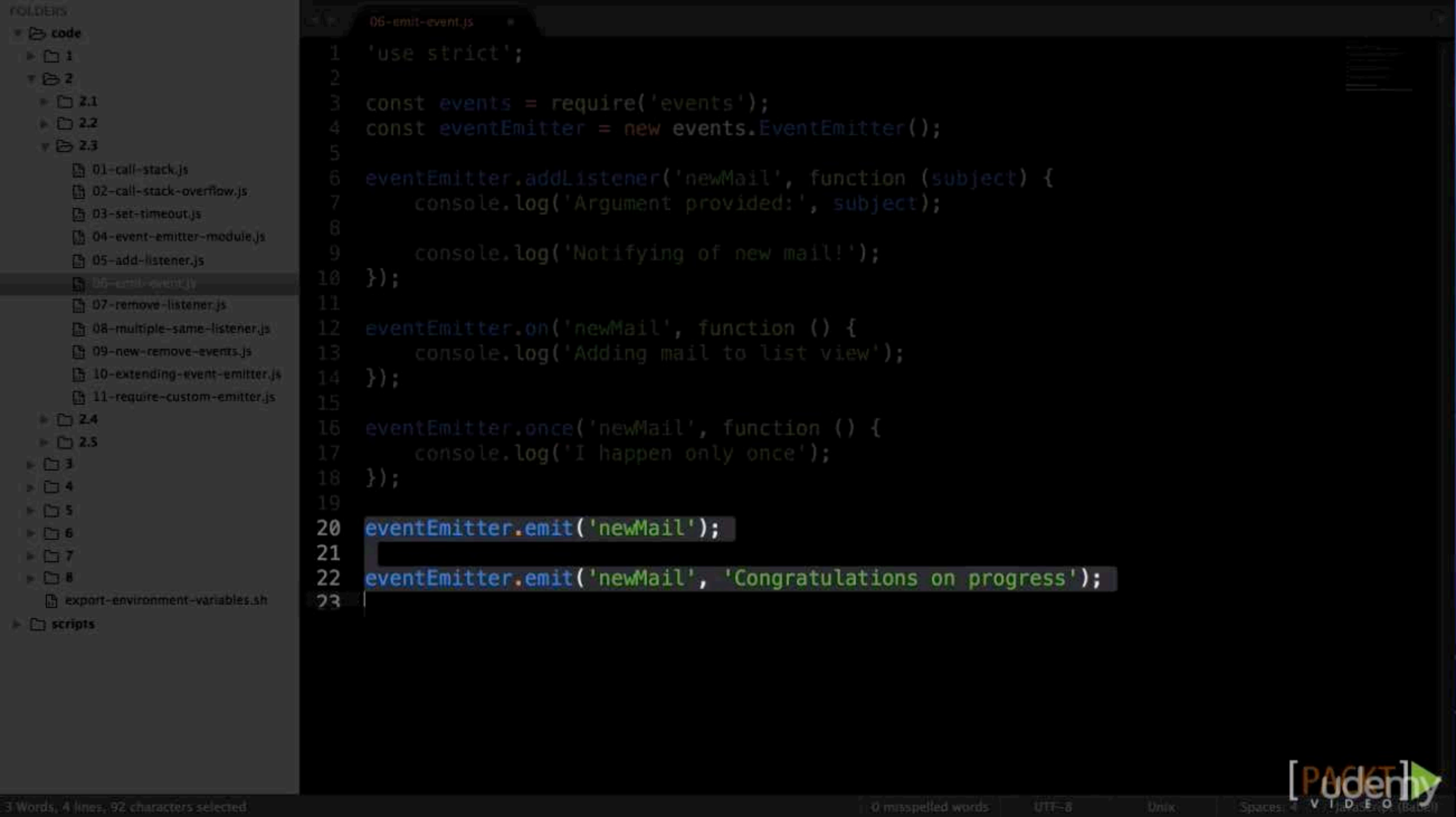
05-add-listener.js

```js
'use strict';

const events = require('events');
const eventEmitter = new events.EventEmitter();

eventEmitter.addListener('newMail', function (subject) {
    console.log(subject);

    console.log('Notifying of new mail!');
});

eventEmitter.on('newMail', function () {
    console.log('Adding mail to list view');
});

// eventEmitter.once('newMail', function () {
//     console.log('I happen only once');
// });
```

10 Words, 10 lines, 222 characters selected | 0 misspelled words | UTF-8 | Unix | Spaces: 4 | Javascript (Babel)

FOLDERS
code
1
2
2.1
2.2
2.3
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.js
09-new-remove-events.js
10-extending-event-emitter.js
11-require-custom-emitter.js
2.4
2.5
3
4
5
6
7
8
export-environment-variables.sh
scripts
05-add-listener.js
'use strict';
const events = require('events');
const eventEmitter = new events.EventEmitter();
eventEmitter.addListener('newMail', function (subject) {
console.log(subject);
console.log('Notifying of new mail!');
});
eventEmitter.on('newMail', function () {
console.log('Adding mail to list view');
});
// eventEmitter.once('newMail', function () {
// console.log('I happen only once');
// });
10 Words, 10 lines, 222 characters selected
0 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)


FOLDERS
code
1
2
2.1
2.2
2.3
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.js
09-new-remove-events.js
10-extending-event-emitter.js
11-require-custom-emitter.js
2.4
2.5
3
4
5
6
7
8
export-environment-variables.sh
scripts
05-add-listener.js
'use strict';
const events = require('events');
const eventEmitter = new events.EventEmitter();
eventEmitter.addListener('newMail', function (subject) {
console.log(subject);
console.log('Notifying of new mail!');
});
eventEmitter.on('newMail', function () {
console.log('Adding mail to list view');
});
eventEmitter.once('newMail', function () {
console.log('I happen only once');
});
4 Words, 4 lines, 86 characters selected
0 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)


FOLDERS
code
1
2
2.1
2.2
2.3
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
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09-new-remove-events.js
10-extending-event-emitter.js
11-require-custom-emitter.js
2.4
2.5
3
4
5
6
7
8
export-environment-variables.sh
scripts
06-emit-event.js
'use strict';
const events = require('events');
const eventEmitter = new events.EventEmitter();
eventEmitter.addListener('newMail', function (subject) {
console.log('Argument provided:', subject);
console.log('Notifying of new mail!');
});
eventEmitter.on('newMail', function () {
console.log('Adding mail to list view');
});
eventEmitter.once('newMail', function () {
console.log('I happen only once');
});
eventEmitter.emit('newMail');
eventEmitter.emit('newMail', 'Congratulations on progress');
3 Words, 4 lines, 92 characters selected
0 misspelled words
UTF-8
Unix
Spaces: 4
[Packt] Video

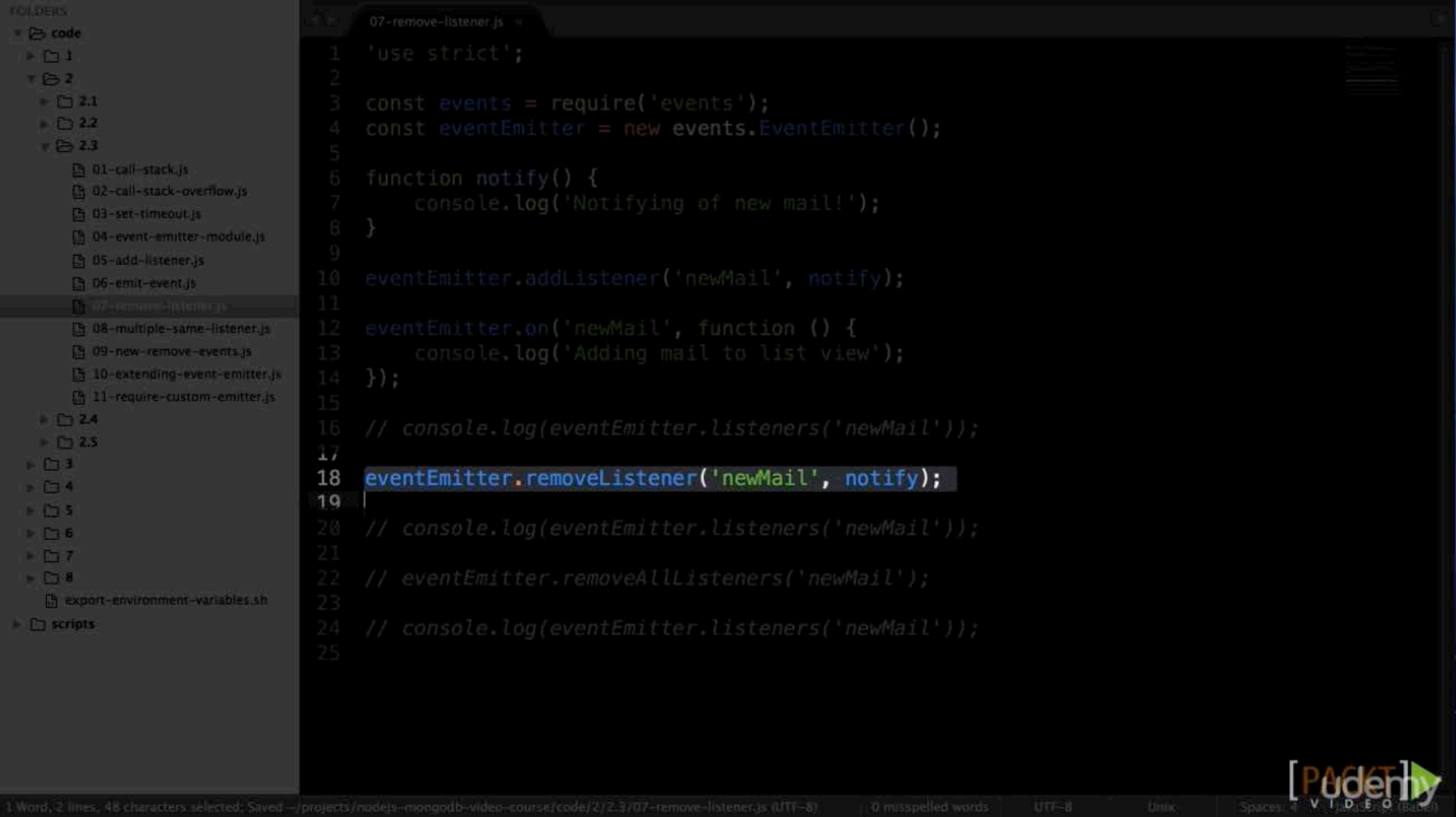
```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$ node
```

[PACKT] Pluralsight VIDEO

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$ node 06-emit-event.js
Argument provided: undefined
Notifying of new mail!
Adding mail to list view
I happen only once
Argument provided: Congratulations on progress
Notifying of new mail!
Adding mail to list view

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$
```

[PACKT] VIDEO


FOLDERS
code
1
2
2.1
2.2
2.3
01-call-stack.js
02-call-stack-overflow.js
03-set-timeout.js
04-event-emitter-module.js
05-add-listener.js
06-emit-event.js
07-remove-listener.js
08-multiple-same-listener.js
09-new-remove-events.js
10-extending-event-emitter.js
11-require-custom-emitter.js
2.4
2.5
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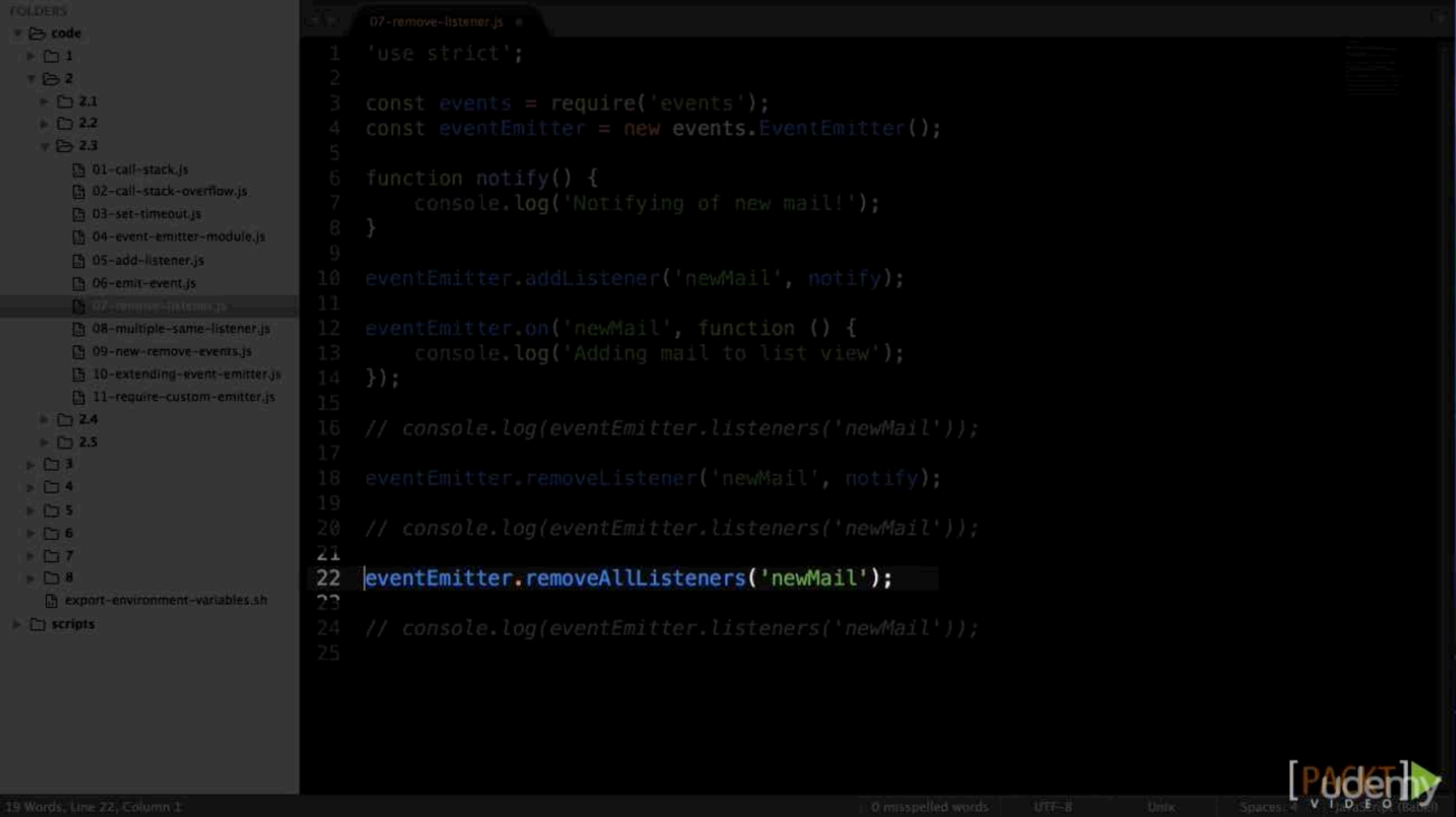
7
8
export-environment-variables.sh
scripts
07-remove-listener.js
'use strict';
const events = require('events');
const eventEmitter = new events.EventEmitter();
function notify() {
console.log('Notifying of new mail!');
}
eventEmitter.addListener('newMail', notify);
eventEmitter.on('newMail', function () {
console.log('Adding mail to list view');
});
// console.log(eventEmitter.listeners('newMail'));
eventEmitter.removeListener('newMail', notify);
// console.log(eventEmitter.listeners('newMail'));
// eventEmitter.removeAllListeners('newMail');
// console.log(eventEmitter.listeners('newMail'));
1 Word, 2 lines, 48 characters selected; Saved — /projects/nodejs-mongodb-video-course/code/2/2.3/07-remove-listener.js (UTF-8)
0 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)
PACKT
VIDEO


FOLDERS
code
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});
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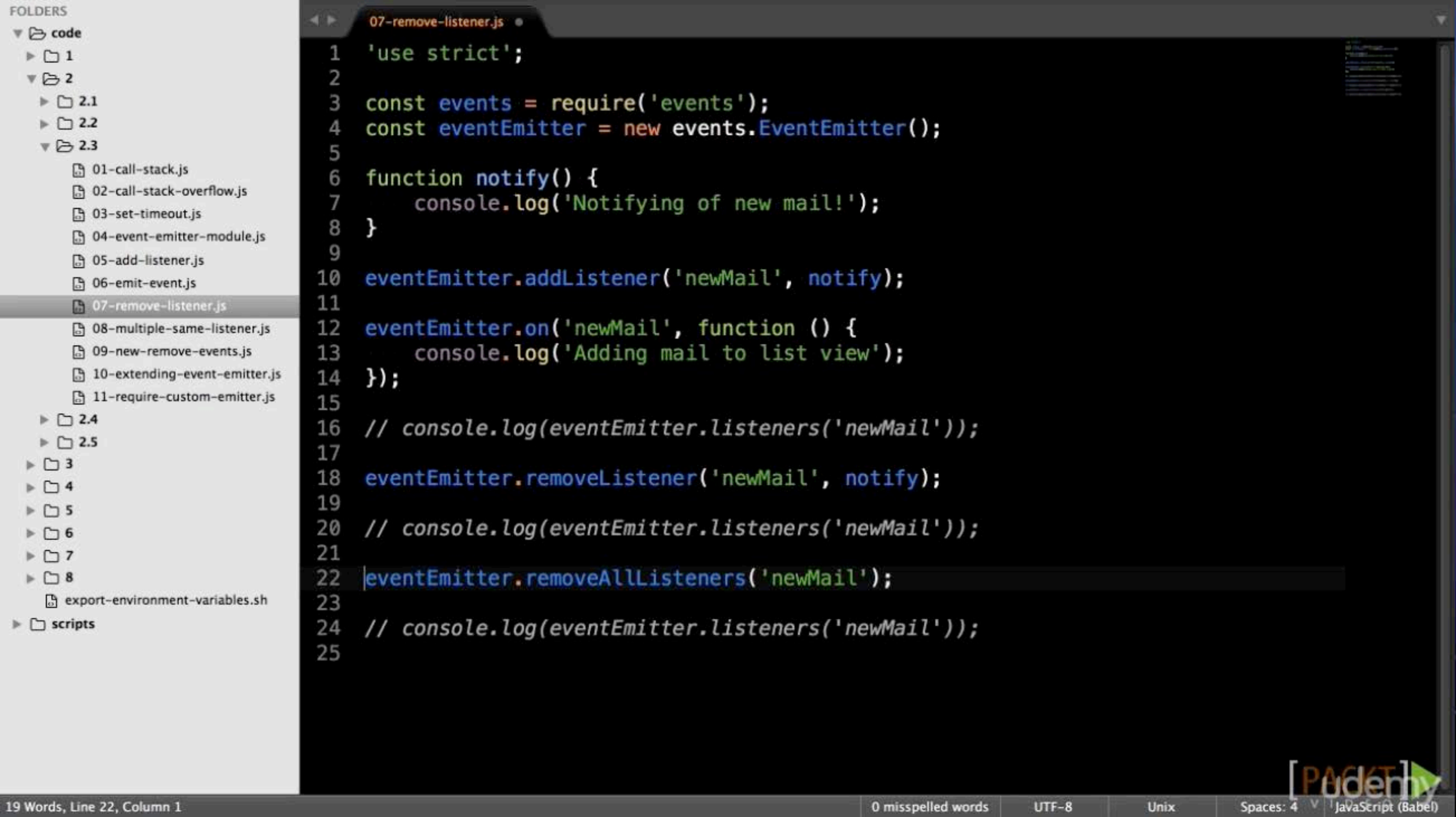
// console.log(eventEmitter.listeners('newMail'));
eventEmitter.removeAllListeners('newMail');
// console.log(eventEmitter.listeners('newMail'));
19 Words, Line 22, Column 1
0 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)
PACKT
VIDEO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// console.log(eventEmitter.listeners('newMail'));
eventEmitter.removeAllListeners('newMail');
// console.log(eventEmitter.listeners('newMail'));
19 Words, Line 22, Column 1
0 misspelled words
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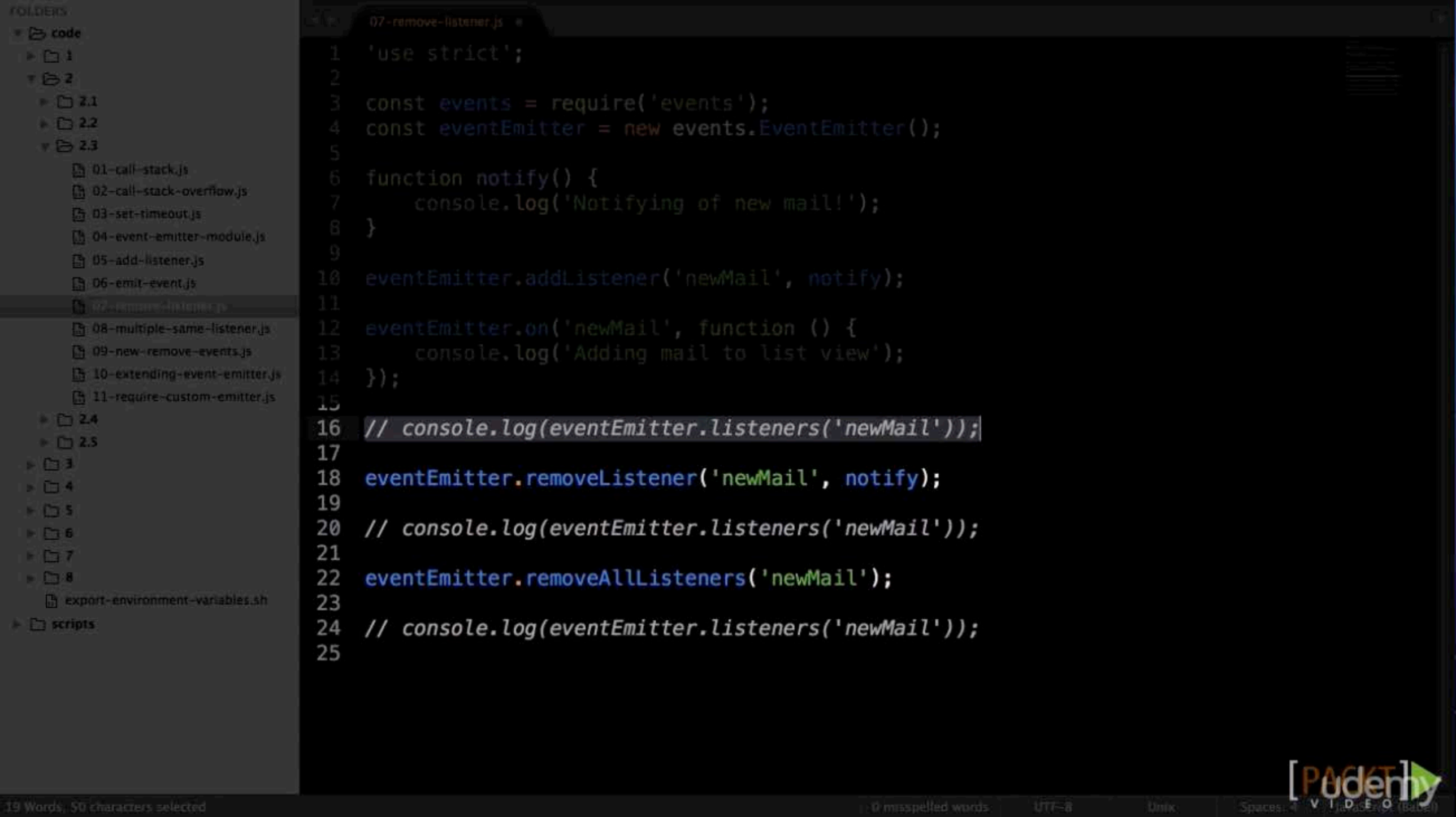
Spaces: 4
JavaScript (Babel)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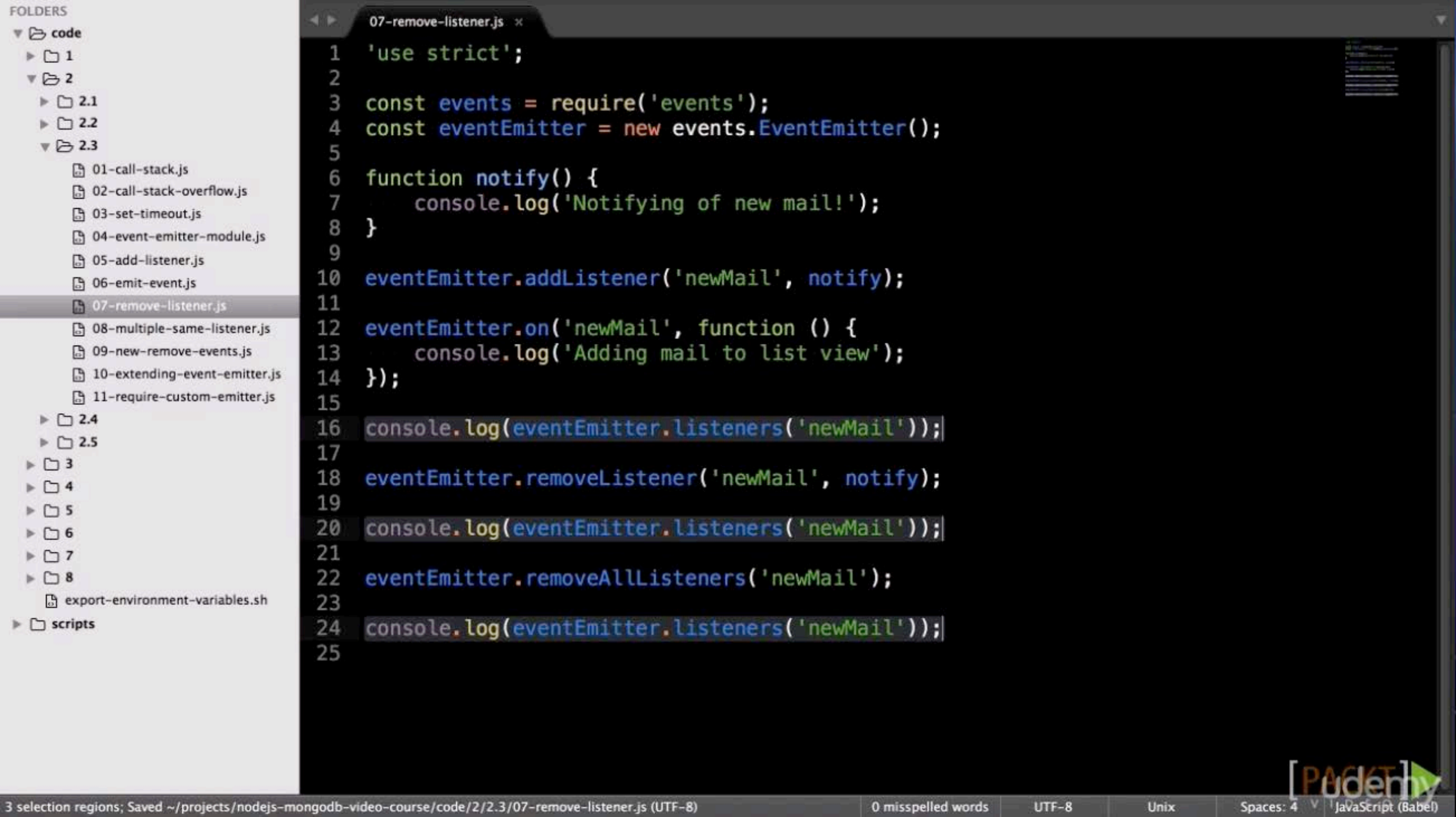
eventEmitter.removeListener('newMail', notify);
// console.log(eventEmitter.listeners('newMail'));
eventEmitter.removeAllListeners('newMail');
// console.log(eventEmitter.listeners('newMail'));
19 Words, 50 characters selected
0 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)
[PACKT VIDEO]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2.1
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const eventEmitter = new events.EventEmitter();
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}
eventEmitter.addListener('newMail', notify);
eventEmitter.on('newMail', function () {
console.log('Adding mail to list view');
});
console.log(eventEmitter.listeners('newMail'));
eventEmitter.removeListener('newMail', notify);
console.log(eventEmitter.listeners('newMail'));
eventEmitter.removeAllListeners('newMail');
console.log(eventEmitter.listeners('newMail'));
3 selection regions; Saved ~/projects/nodejs-mongodb-video-course/code/2/2.3/07-remove-listener.js (UTF-8)
0 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)

FOLDERS

- code
  - 1
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    - 2.1
    - 2.2
    - 2.3
      - 01-call-stack.js
      - 02-call-stack-overflow.js
      - 03-set-timeout.js
      - 04-event-emitter-module.js
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      - 06-emit-event.js
      - 07-remove-listener.js
      - 08-multiple-same-listener.js
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    - 2.4
    - 2.5
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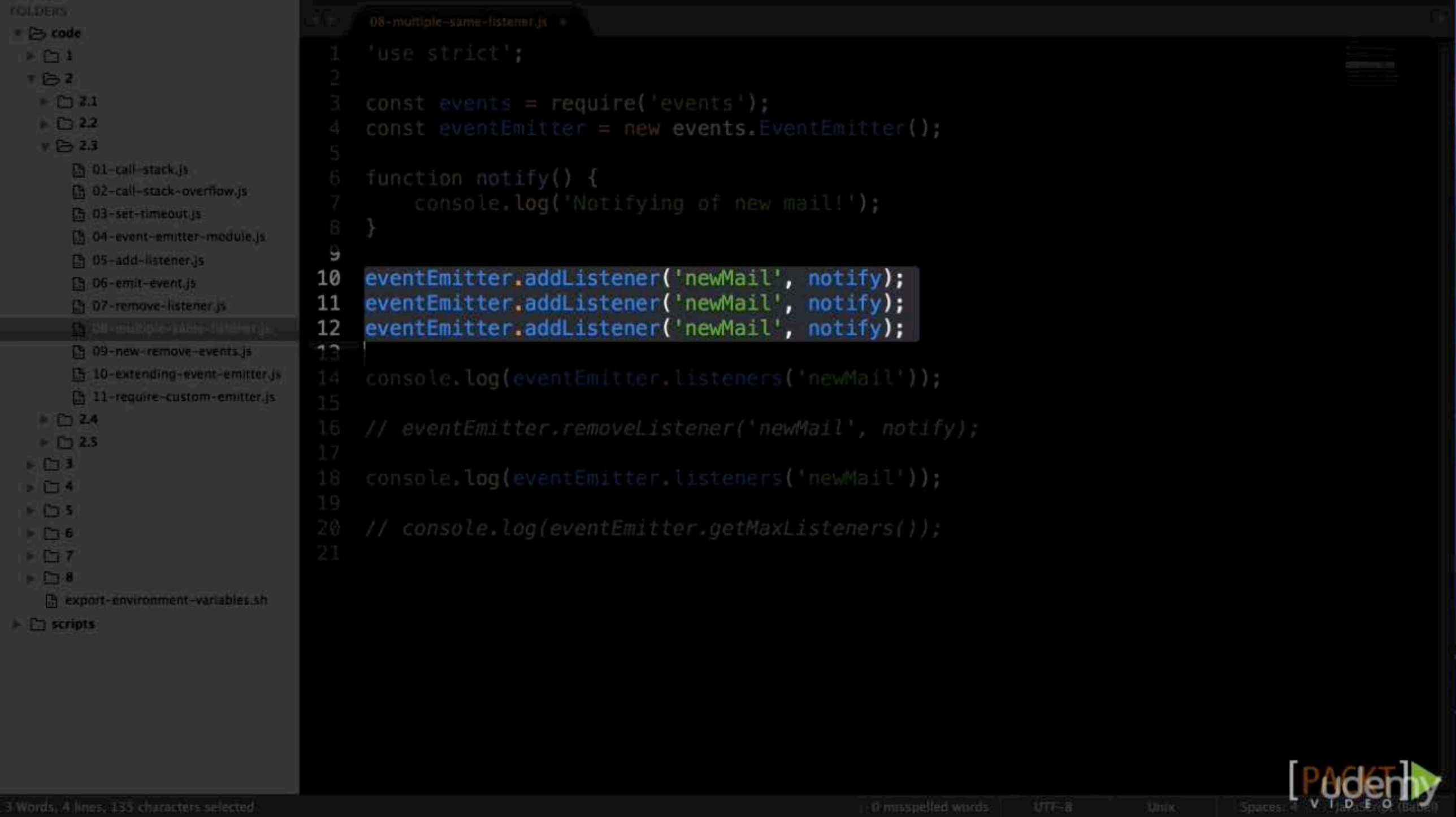
  - 4
  - 5
  - 6
  - 7
  - 8
  - export-environment-variables.sh
- scripts

08-multiple-same-listener.js

```
1  'use strict';
2
3  const events = require('events');
4  const eventEmitter = new events.EventEmitter();
5
6  function notify() {
7      console.log('Notifying of new mail!');
8  }
9
10 // eventEmitter.addListener('newMail', notify);
11 // eventEmitter.addListener('newMail', notify);
12 // eventEmitter.addListener('newMail', notify);
13
14 console.log(eventEmitter.listeners('newMail'));
15
16 // eventEmitter.removeListener('newMail', notify);
17
18 console.log(eventEmitter.listeners('newMail'));
19
20 // console.log(eventEmitter.getMaxListeners());
21
```

3 Words, 4 lines, 144 characters selected — 0 misspelled words — UTF-8 — Unix — Spaces: 4 — JavaScript (Babel)

[Packt] Video



FOLDERS

- code
  - 1
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    - 2.1
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      - 01-call-stack.js
      - 02-call-stack-overflow.js
      - 03-set-timeout.js
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      - 05-add-listener.js
      - 06-emit-event.js
      - 07-remove-listener.js
      - 08-multiple-same-listener.js
      - 09-new-remove-events.js
      - 10-extending-event-emitter.js
      - 11-require-custom-emitter.js
    - 2.4
    - 2.5
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  - 6
  - 7
  - 8
  - export-environment-variables.sh
- scripts

08-multiple-same-listener.js

```javascript
'use strict';

const events = require('events');
const eventEmitter = new events.EventEmitter();

function notify() {
    console.log('Notifying of new mail!');
}

eventEmitter.addListener('newMail', notify);
eventEmitter.addListener('newMail', notify);
eventEmitter.addListener('newMail', notify);

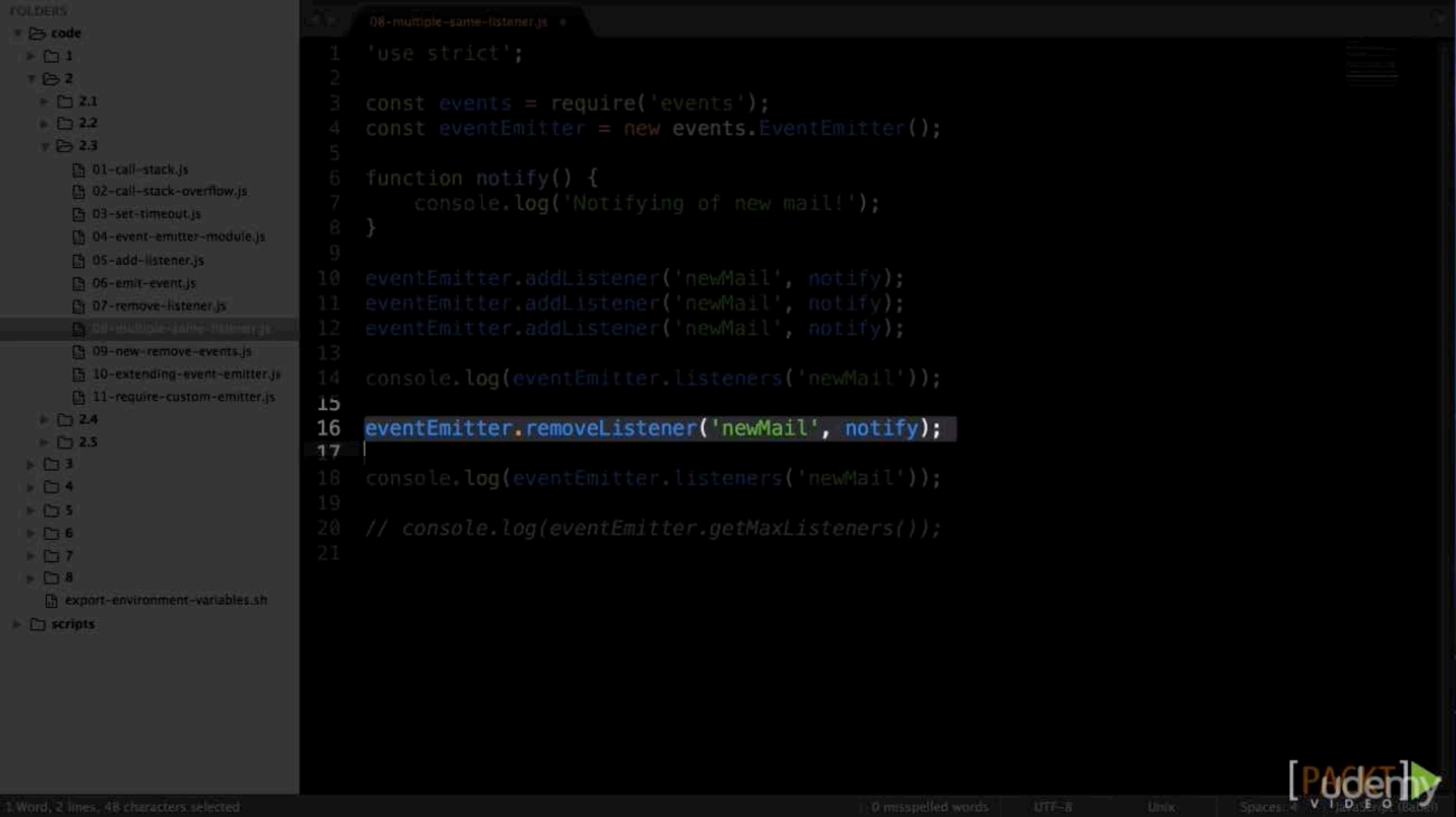
console.log(eventEmitter.listeners('newMail'));

// eventEmitter.removeListener('newMail', notify);

console.log(eventEmitter.listeners('newMail'));

// console.log(eventEmitter.getMaxListeners());
```

3 Words, 4 lines, 135 characters selected | 0 misspelled words | UTF-8 | Unix | Spaces: 4 | JavaScript (Babel)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2.1
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export-environment-variables.sh
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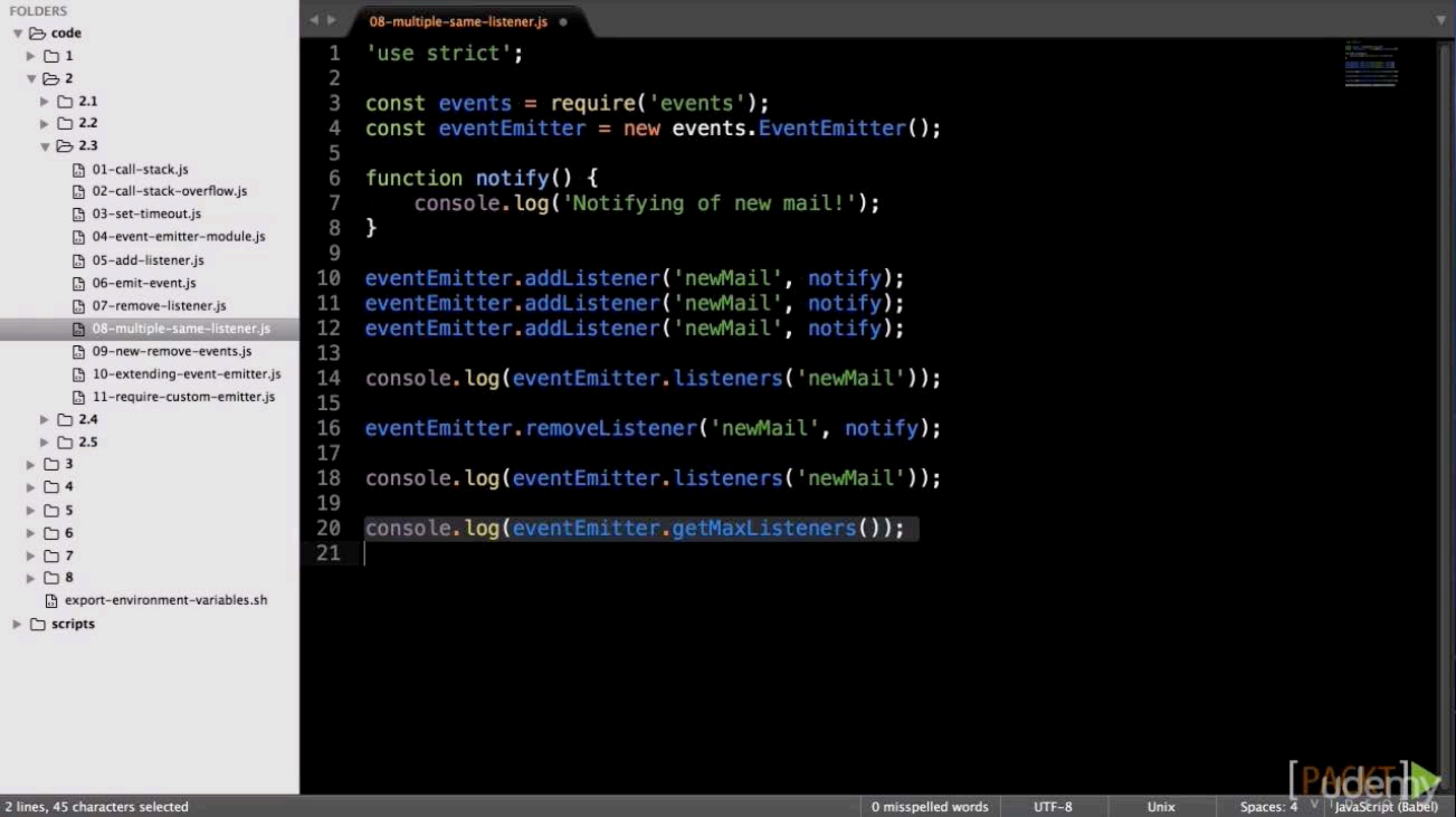
const events = require('events');
const eventEmitter = new events.EventEmitter();
function notify() {
console.log('Notifying of new mail!');
}
eventEmitter.addListener('newMail', notify);
eventEmitter.addListener('newMail', notify);
eventEmitter.addListener('newMail', notify);
console.log(eventEmitter.listeners('newMail'));
eventEmitter.removeListener('newMail', notify);
console.log(eventEmitter.listeners('newMail'));
// console.log(eventEmitter.getMaxListeners());
1 Word, 2 lines, 48 characters selected
0 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)
PACKT
VIDEO


FOLDERS
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2.4
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export-environment-variables.sh
scripts
08-multiple-same-listener.js
'use strict';
const events = require('events');
const eventEmitter = new events.EventEmitter();
function notify() {
console.log('Notifying of new mail!');
}
eventEmitter.addListener('newMail', notify);
eventEmitter.addListener('newMail', notify);
eventEmitter.addListener('newMail', notify);
console.log(eventEmitter.listeners('newMail'));
eventEmitter.removeListener('newMail', notify);
console.log(eventEmitter.listeners('newMail'));
console.log(eventEmitter.getMaxListeners());
2 lines, 45 characters selected
0 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$ node 08-multiple-same-listener.js
[ [Function: notify], [Function: notify], [Function: notify] ]
[ [Function: notify], [Function: notify] ]
10

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$
```

[PACKT] VIDEO

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$ node 09-new-remove-events.js
Listener added
Listener added
Listener removed

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$
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[PACKT] VIDEO

FOLDERS

- code
  - 1
  - 2
    - 2.1
    - 2.2
    - 2.3
      - 01-call-stack.js
      - 02-call-stack-overflow.js
      - 03-set-timeout.js
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      - 05-add-listener.js
      - 06-emit-event.js
      - 07-remove-listener.js
      - 08-multiple-same-listener.js
      - 09-new-remove-events.js
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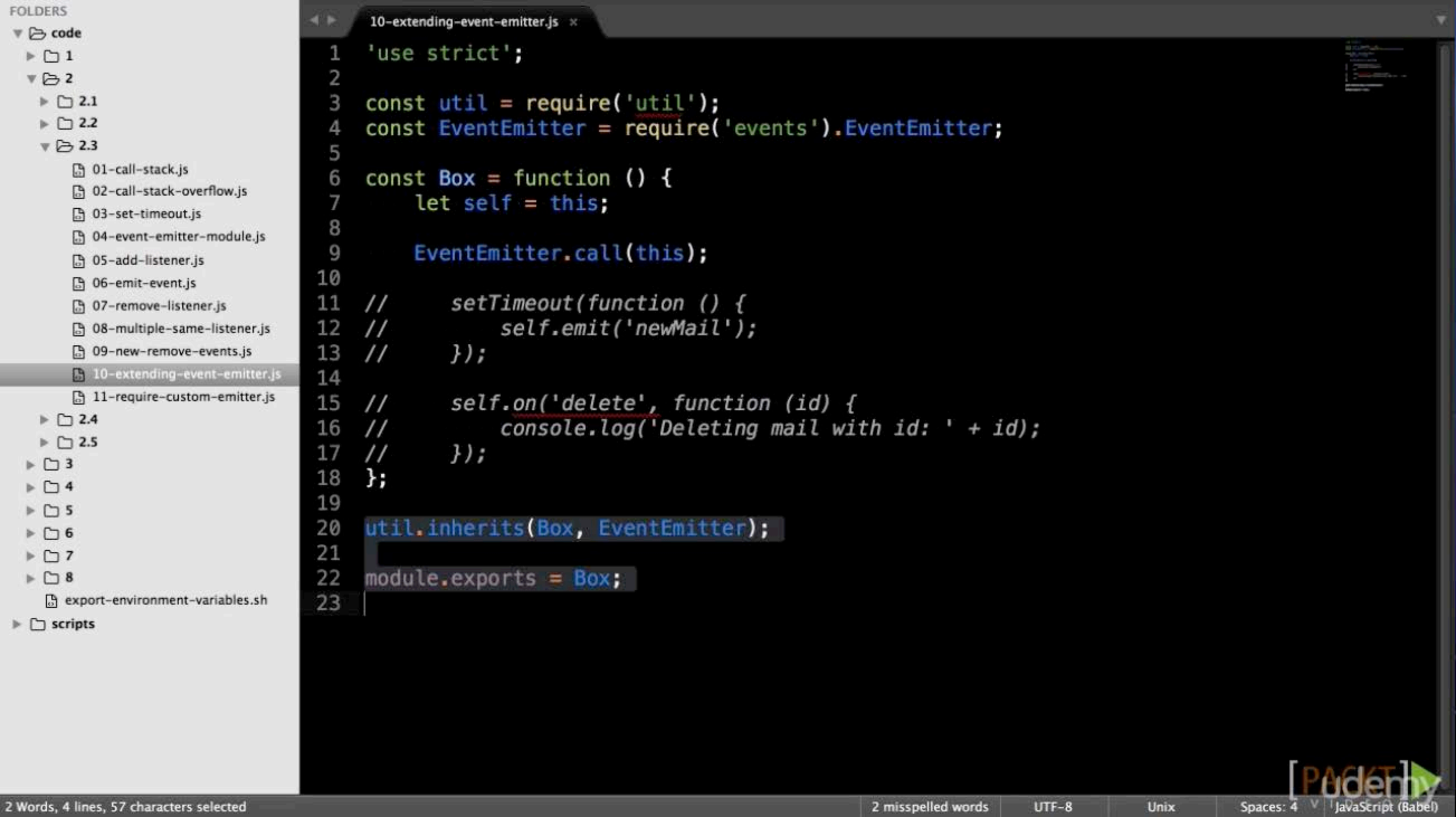
    - 2.4
    - 2.5
  - 3
  - 4
  - 5
  - 6
  - 7
  - 8
  - export-environment-variables.sh
- scripts

10-extending-event-emitter.js

```
1  'use strict';
2
3  const util = require('util');
4  const EventEmitter = require('events').EventEmitter;
5
6  // const Box = function () {
7  //     let self = this;
8
9  //     EventEmitter.call(this);
10
11 //     setTimeout(function () {
12 //         self.emit('newMail');
13 //     });
14
15 //     self.on('delete', function (id) {
16 //         console.log('Deleting mail with id: ' + id);
17 //     });
18 // };
19
20 // util.inherits(Box, EventEmitter);
21
22 // module.exports = Box;
23
```

[PACKT] Pluralsight


FOLDERS
code
1
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2.1
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01-call-stack.js
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06-emit-event.js
07-remove-listener.js
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09-new-remove-events.js
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11-require-custom-emitter.js
2.4
2.5
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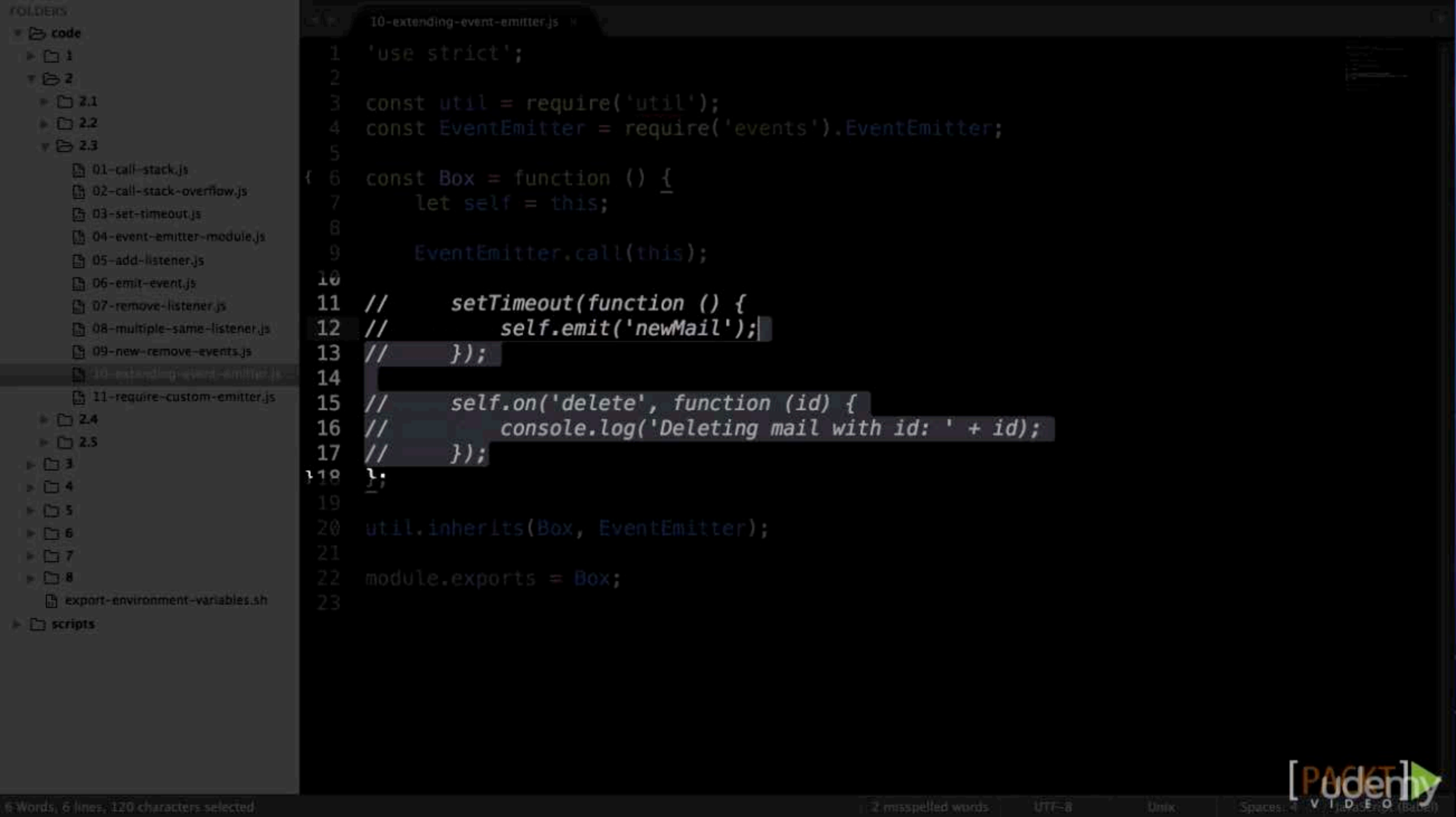
8
export-environment-variables.sh
scripts
10-extending-event-emitter.js
'use strict';
const util = require('util');
const EventEmitter = require('events').EventEmitter;
const Box = function () {
let self = this;
EventEmitter.call(this);
// setTimeout(function () {
// self.emit('newMail');
// });
// self.on('delete', function (id) {
// console.log('Deleting mail with id: ' + id);
// });
};
util.inherits(Box, EventEmitter);
module.exports = Box;
2 Words, 4 lines, 57 characters selected
2 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)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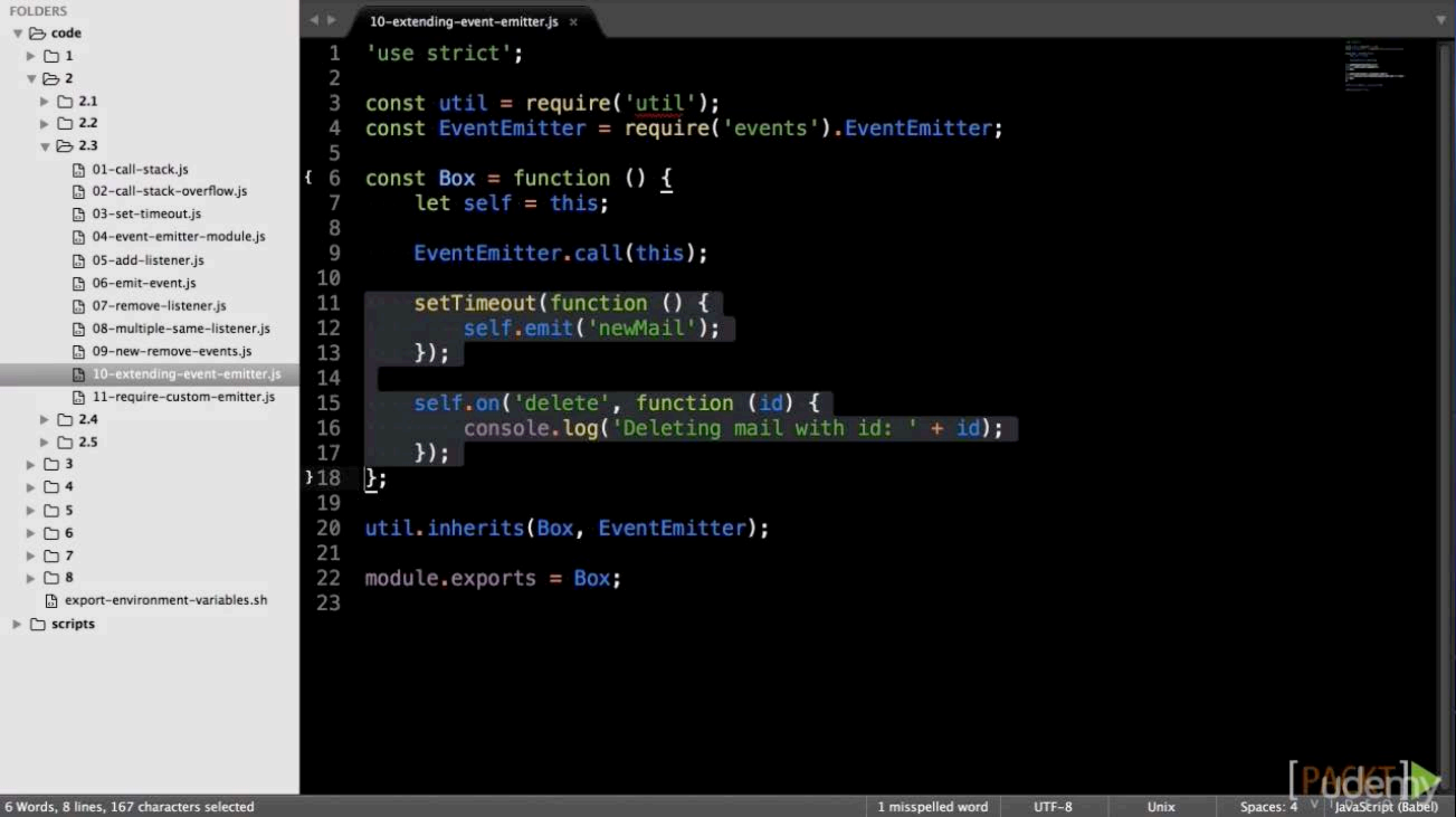
export-environment-variables.sh
scripts
10-extending-event-emitter.js
'use strict';
const util = require('util');
const EventEmitter = require('events').EventEmitter;
const Box = function () {
let self = this;
EventEmitter.call(this);
// setTimeout(function () {
// self.emit('newMail');
// });
// self.on('delete', function (id) {
// console.log('Deleting mail with id: ' + id);
// });
};
util.inherits(Box, EventEmitter);
module.exports = Box;
6 Words, 6 lines, 120 characters selected
2 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)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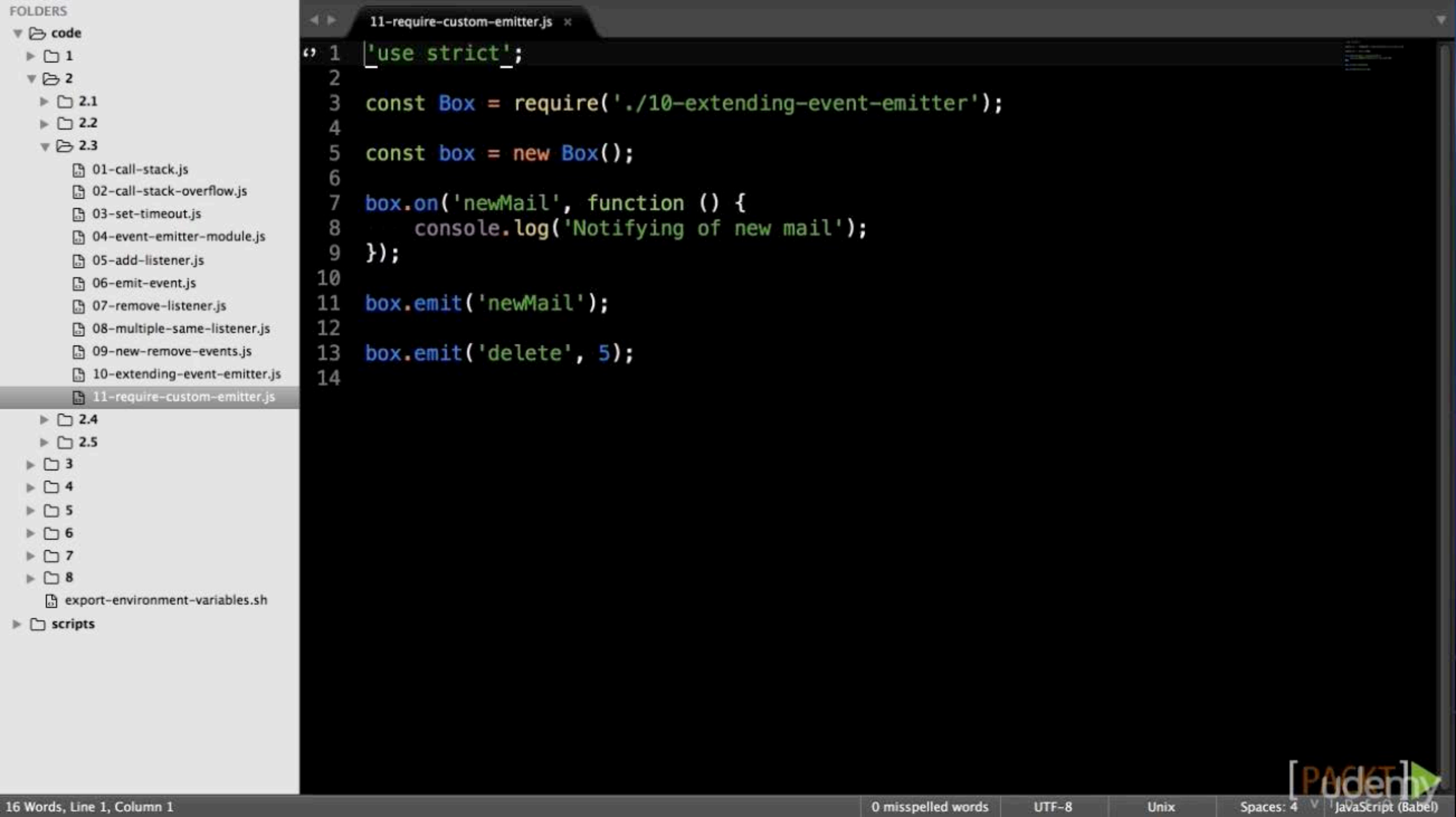
const Box = function () {
let self = this;
EventEmitter.call(this);
setTimeout(function () {
self.emit('newMail');
});
self.on('delete', function (id) {
console.log('Deleting mail with id: ' + id);
});
};
util.inherits(Box, EventEmitter);
module.exports = Box;
6 Words, 8 lines, 167 characters selected
1 misspelled word
UTF-8
Unix
Spaces: 4
JavaScript (Babel)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11-require-custom-emitter.js
2.4
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export-environment-variables.sh
scripts
11-require-custom-emitter.js
'use strict';
const Box = require('./10-extending-event-emitter');
const box = new Box();
box.on('newMail', function () {
console.log('Notifying of new mail');
});
box.emit('newMail');
box.emit('delete', 5);
16 Words, Line 1, Column 1
0 misspelled words
UTF-8
Unix
Spaces: 4
JavaScript (Babel)

```
ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$ node 11-require-custom-emitter.js
Notifying of new mail
Deleting mail with id: 5
Notifying of new mail

ifdattic at ifdattic-mbp13 in ~/projects/nodejs-mongodb-video-course/code/2/2.3 on master [!]
$
```

[PACKT] Pluralsight VIDEO

Next Video

Working with Streams

[PACKT] Pudemy VIDEO