

Learning ECMAScript 6: Moving to the New JavaScript

Joris Hermans

About Me

- Software developer
- Passion about the web
- Conference speaker
- Innovator



Learning ECMAScript 6: Moving to the New JavaScript

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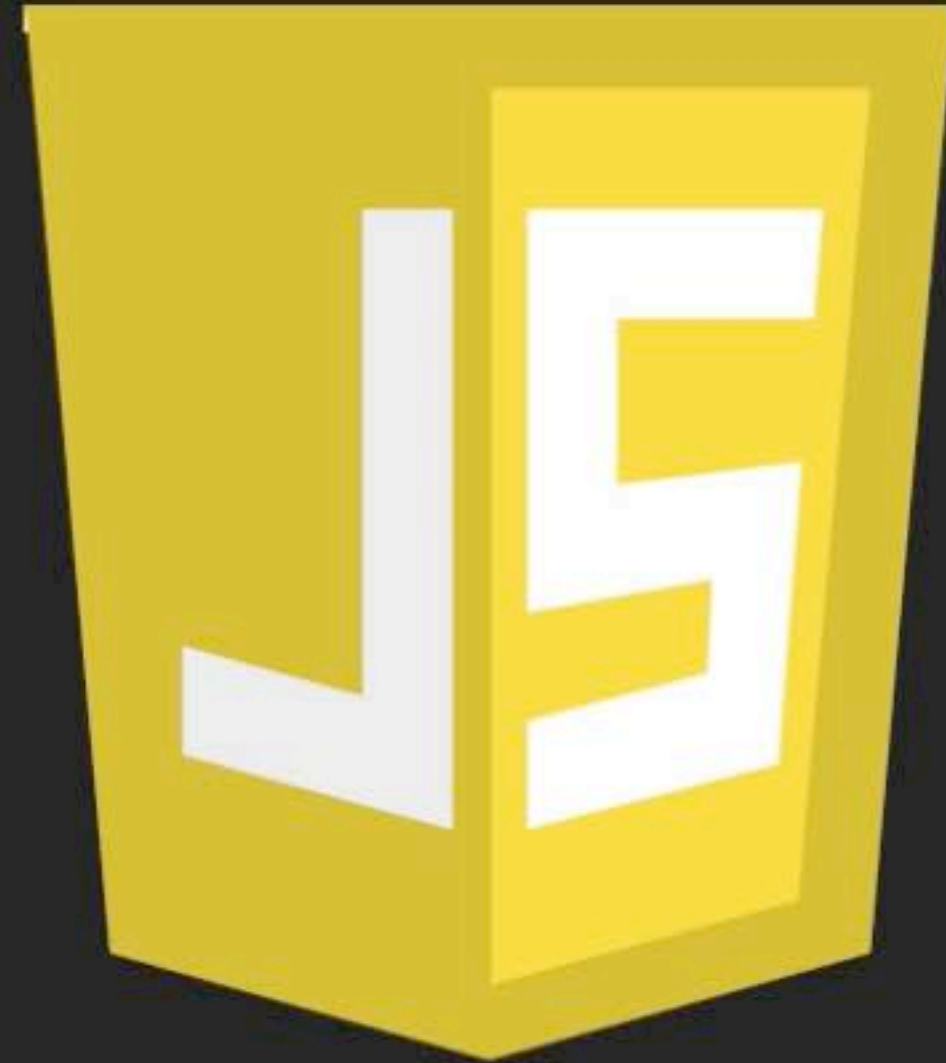
Video 1.1

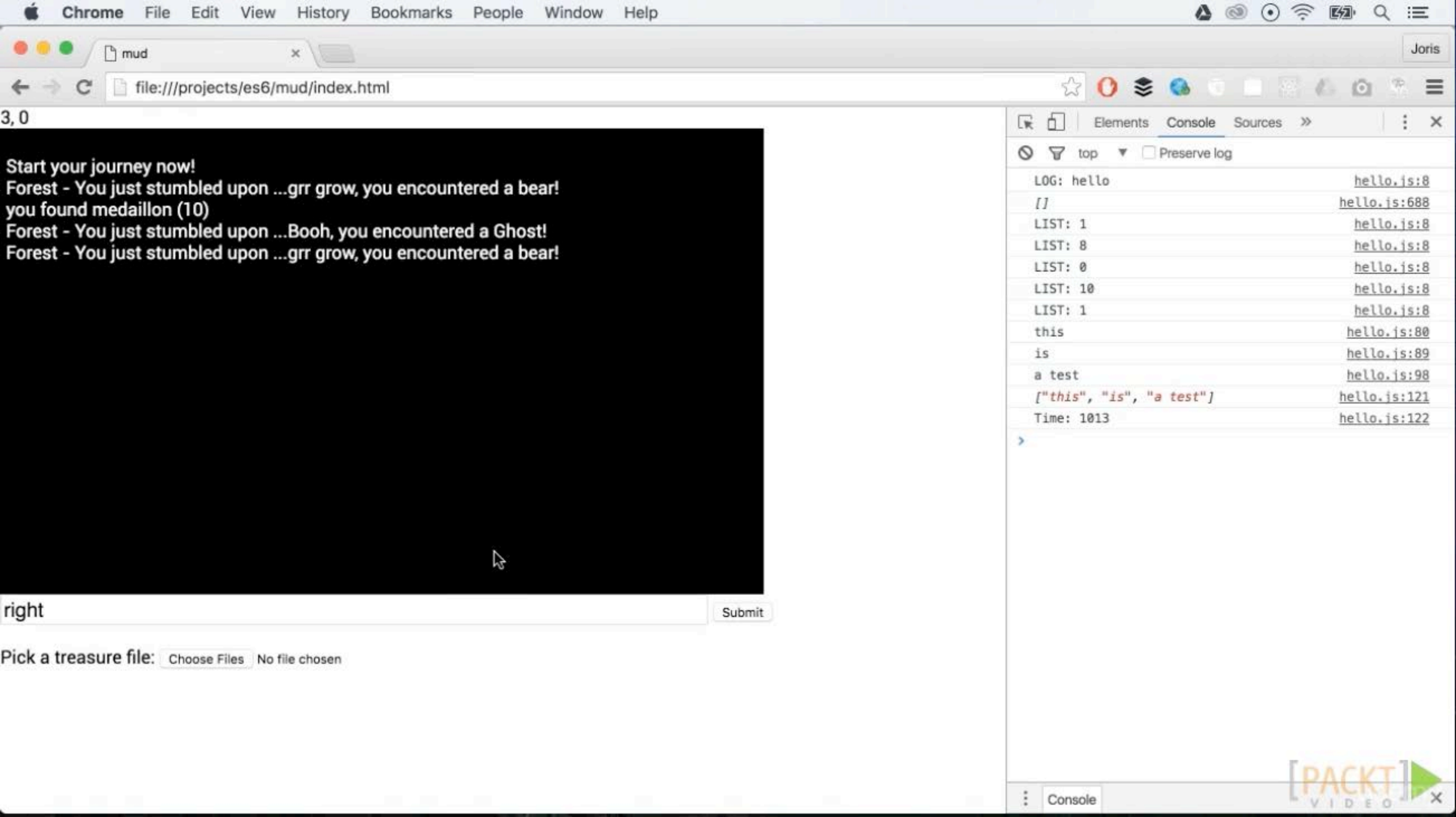
The Course Overview



ECMAScript/JavaScript

- Invented by Brendan Eich
- Netscape
- May 23, 1995, 21 years ago
- 5th edition December 2009
- 6th edition June 17 2015
 - ES6 / ES2015





3, 0

Start your journey now!
Forest - You just stumbled upon ...grr grow, you encountered a bear!
you found medaillon (10)
Forest - You just stumbled upon ...Booh, you encountered a Ghost!
Forest - You just stumbled upon ...grr grow, you encountered a bear!

right

Submit

Pick a treasure file: Choose Files No file chosen

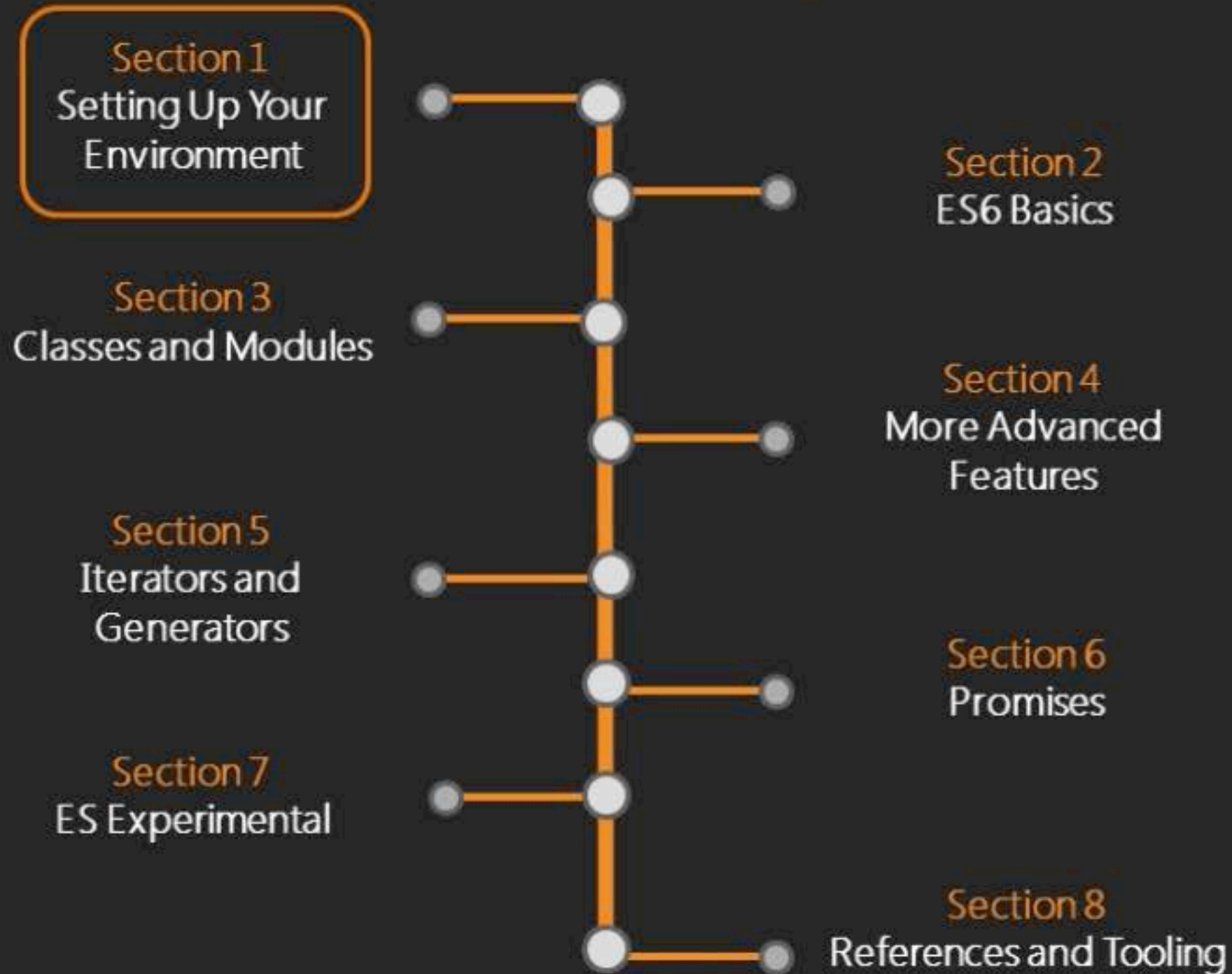
Elements Console Sources

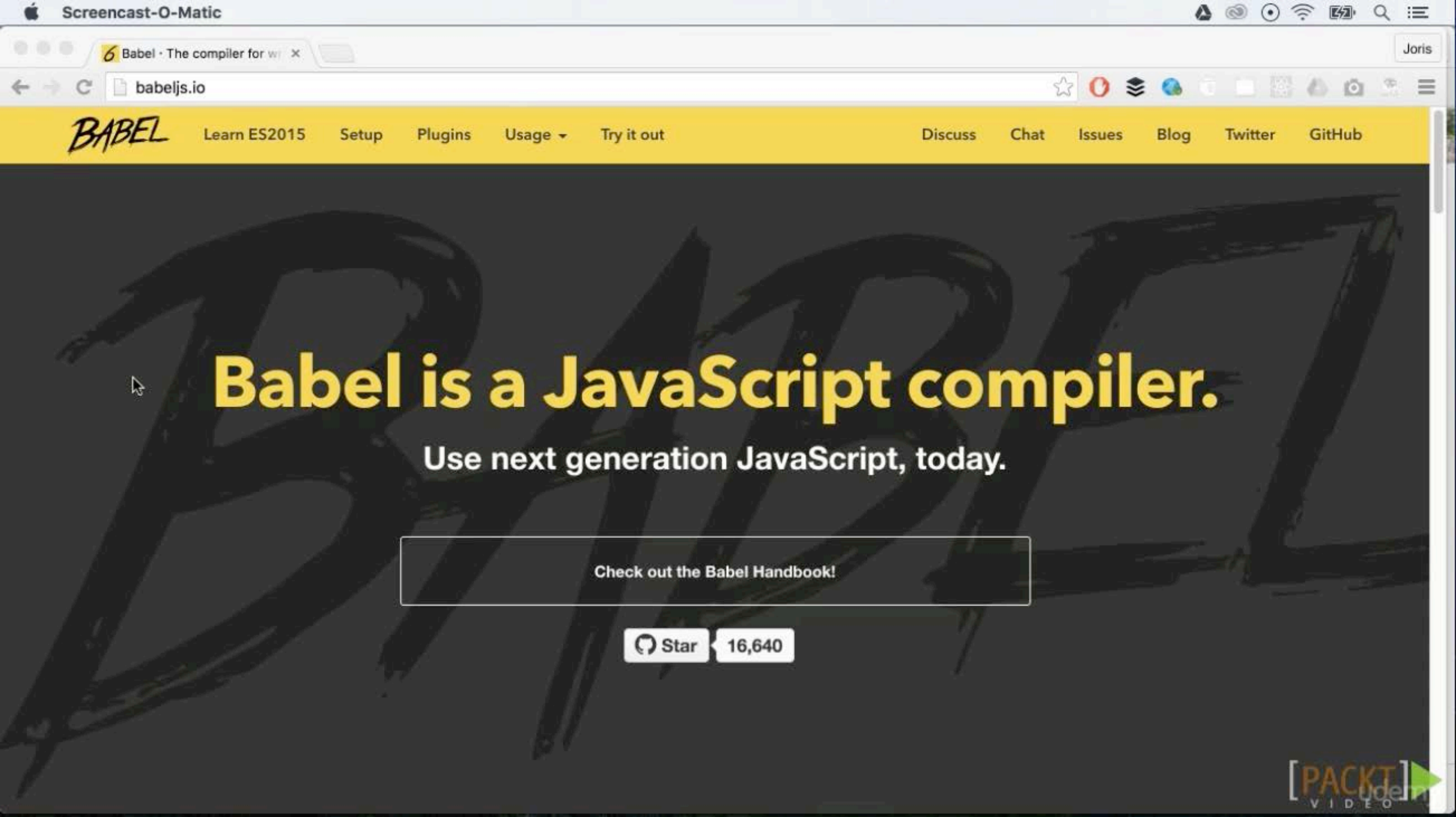
top Preserve log

LOG: hello	hello.js:8
[]	hello.js:688
LIST: 1	hello.js:8
LIST: 8	hello.js:8
LIST: 0	hello.js:8
LIST: 10	hello.js:8
LIST: 1	hello.js:8
this	hello.js:80
is	hello.js:89
a test	hello.js:98
["this", "is", "a test"]	hello.js:121
Time: 1013	hello.js:122

Console

The Road Map





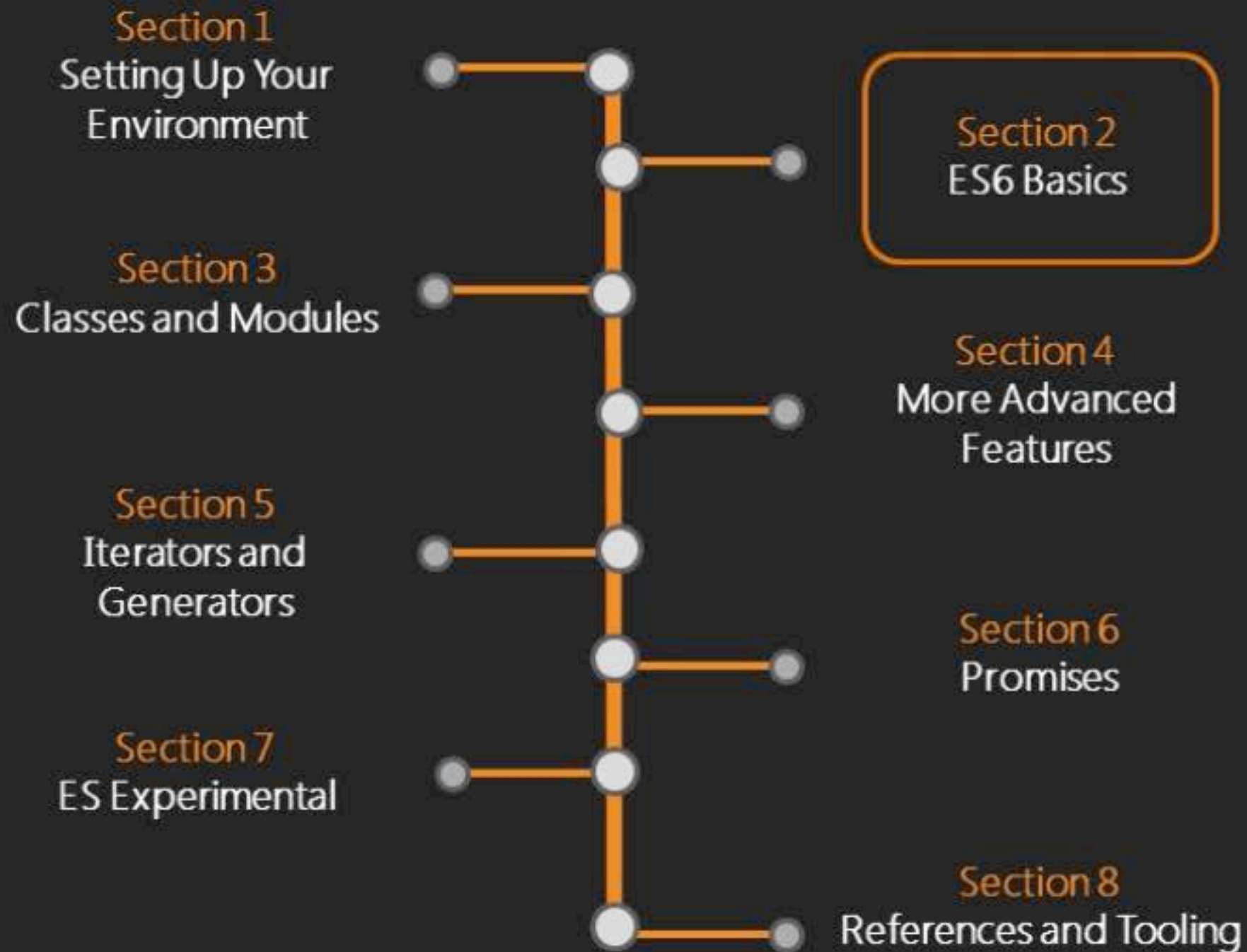
Babel is a JavaScript compiler.

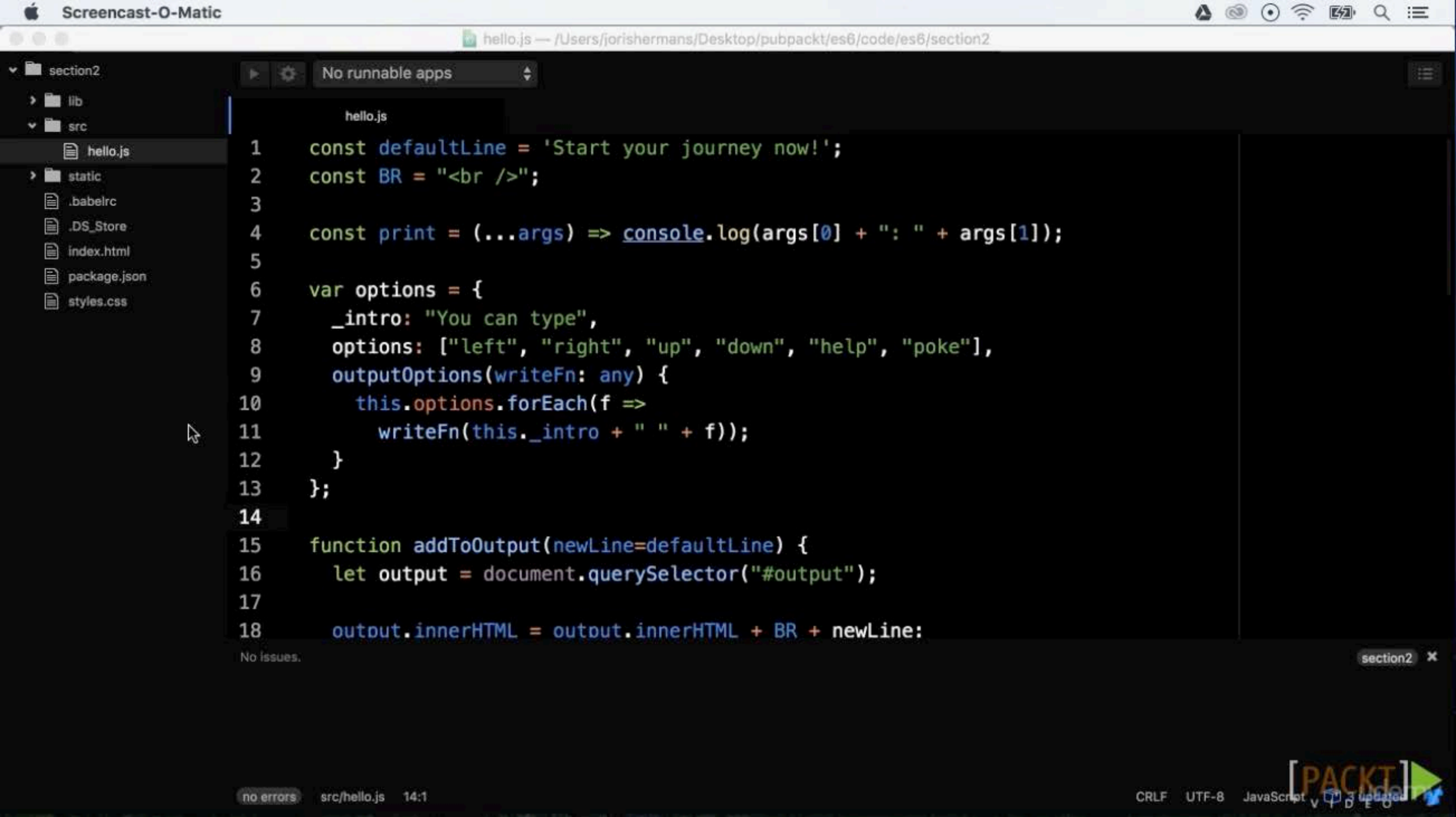
Use next generation JavaScript, today.

Check out the Babel Handbook!

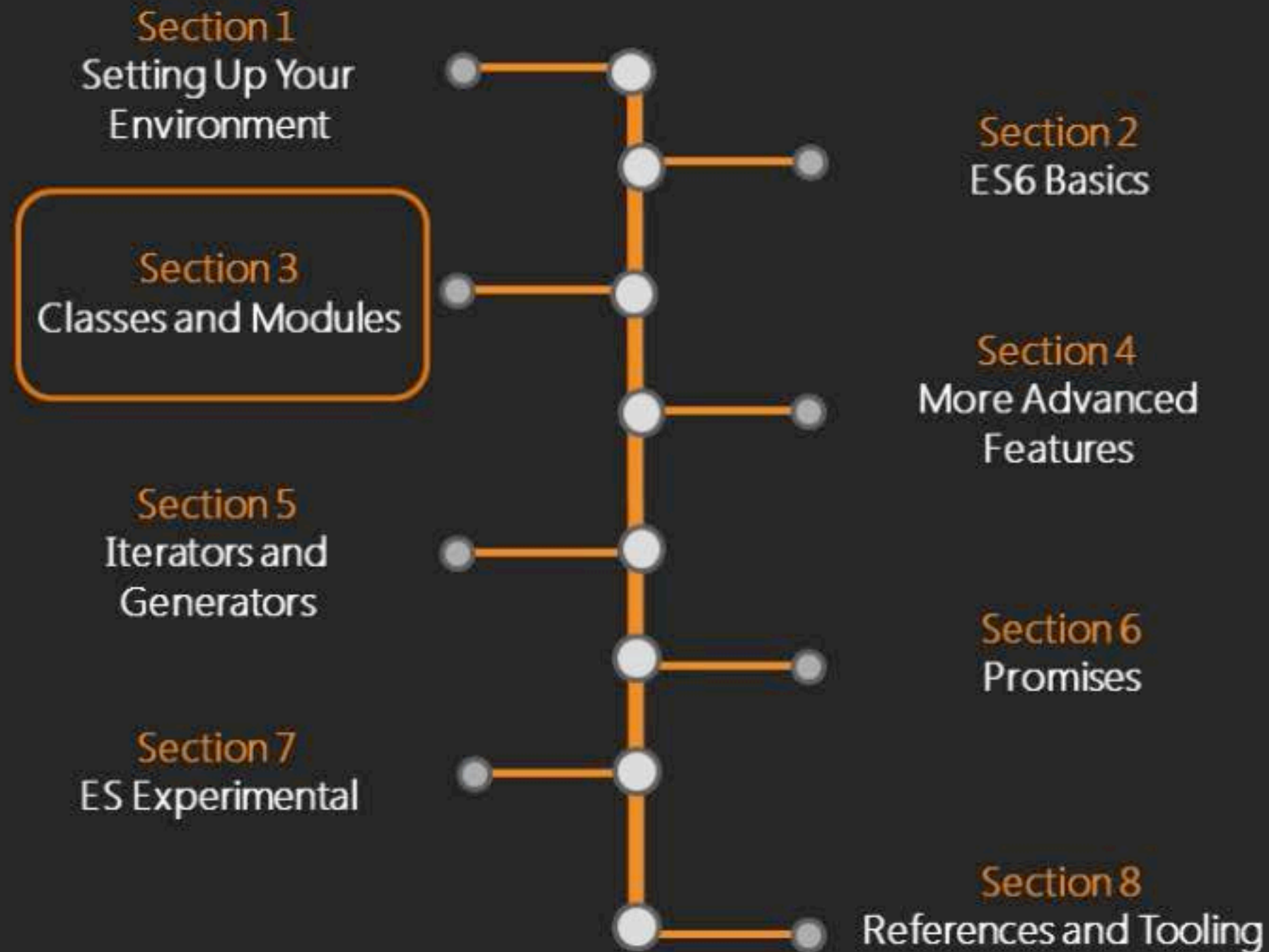
Star 16,640

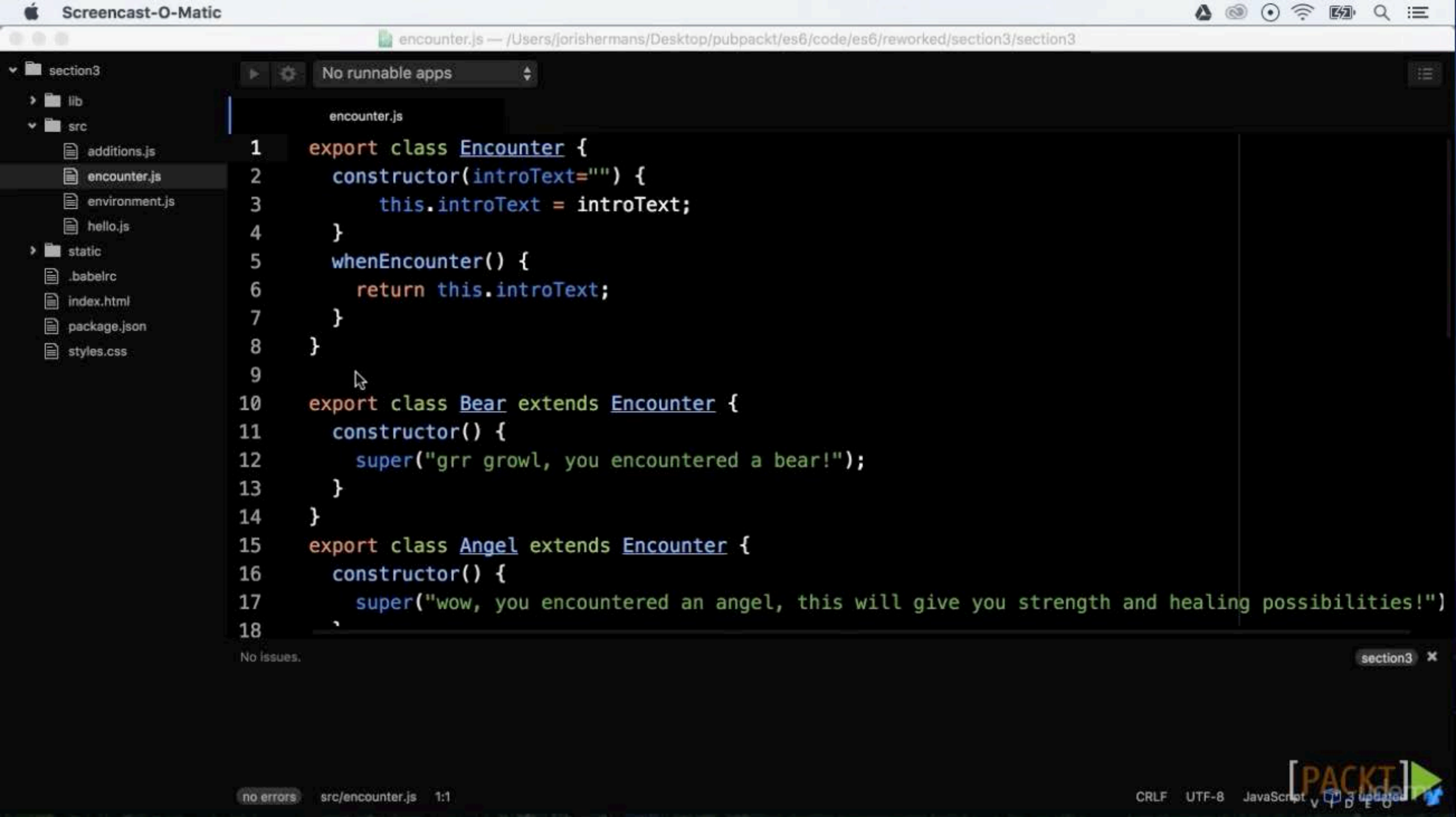
The Road Map





The Road Map





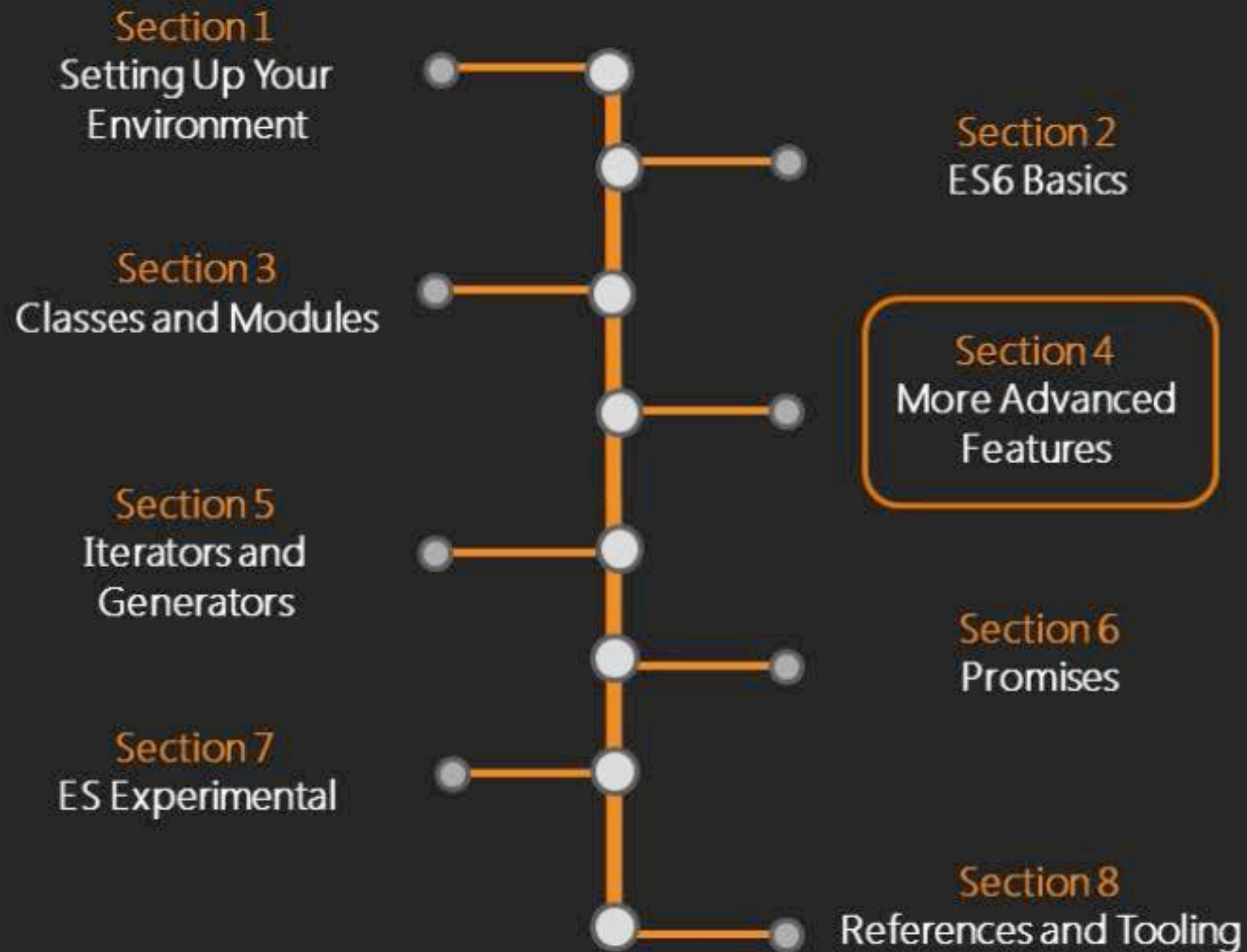
```
1 export class Encounter {
2   constructor(introText='') {
3     this.introText = introText;
4   }
5   whenEncounter() {
6     return this.introText;
7   }
8 }
9
10 export class Bear extends Encounter {
11   constructor() {
12     super("grr growl, you encountered a bear!");
13   }
14 }
15 export class Angel extends Encounter {
16   constructor() {
17     super("wow, you encountered an angel, this will give you strength and healing possibilities!");
18   }
19 }
```

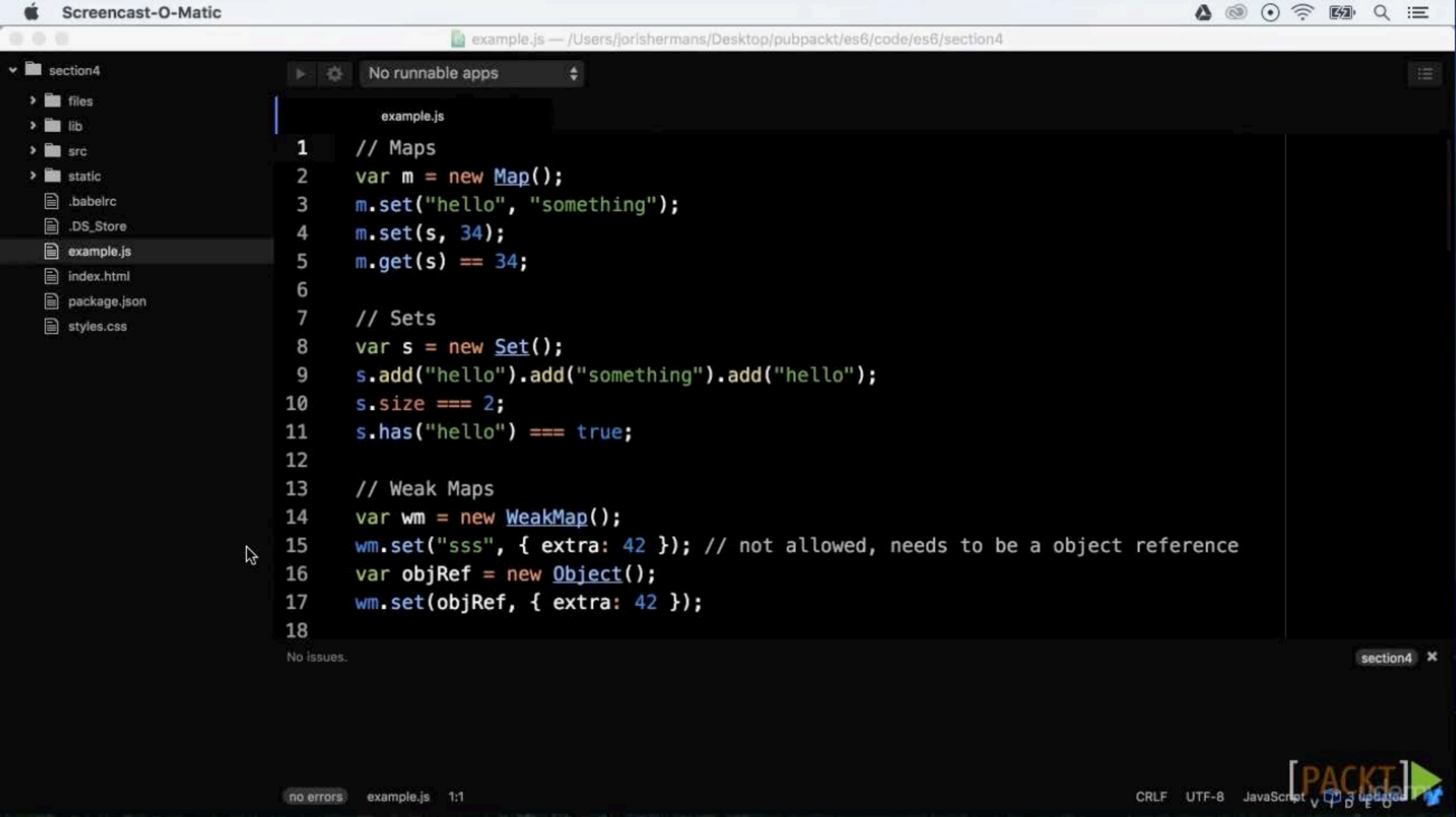
No issues.

section3 x



The Road Map





```
1 // Maps  
2 var m = new Map();  
3 m.set("hello", "something");  
4 m.set(s, 34);  
5 m.get(s) == 34;  
6  
7 // Sets  
8 var s = new Set();  
9 s.add("hello").add("something").add("hello");  
10 s.size === 2;  
11 s.has("hello") === true;  
12  
13 // Weak Maps  
14 var wm = new WeakMap();  
15 wm.set("sss", { extra: 42 }); // not allowed, needs to be a object reference  
16 var objRef = new Object();  
17 wm.set(objRef, { extra: 42 });  
18
```

No issues.

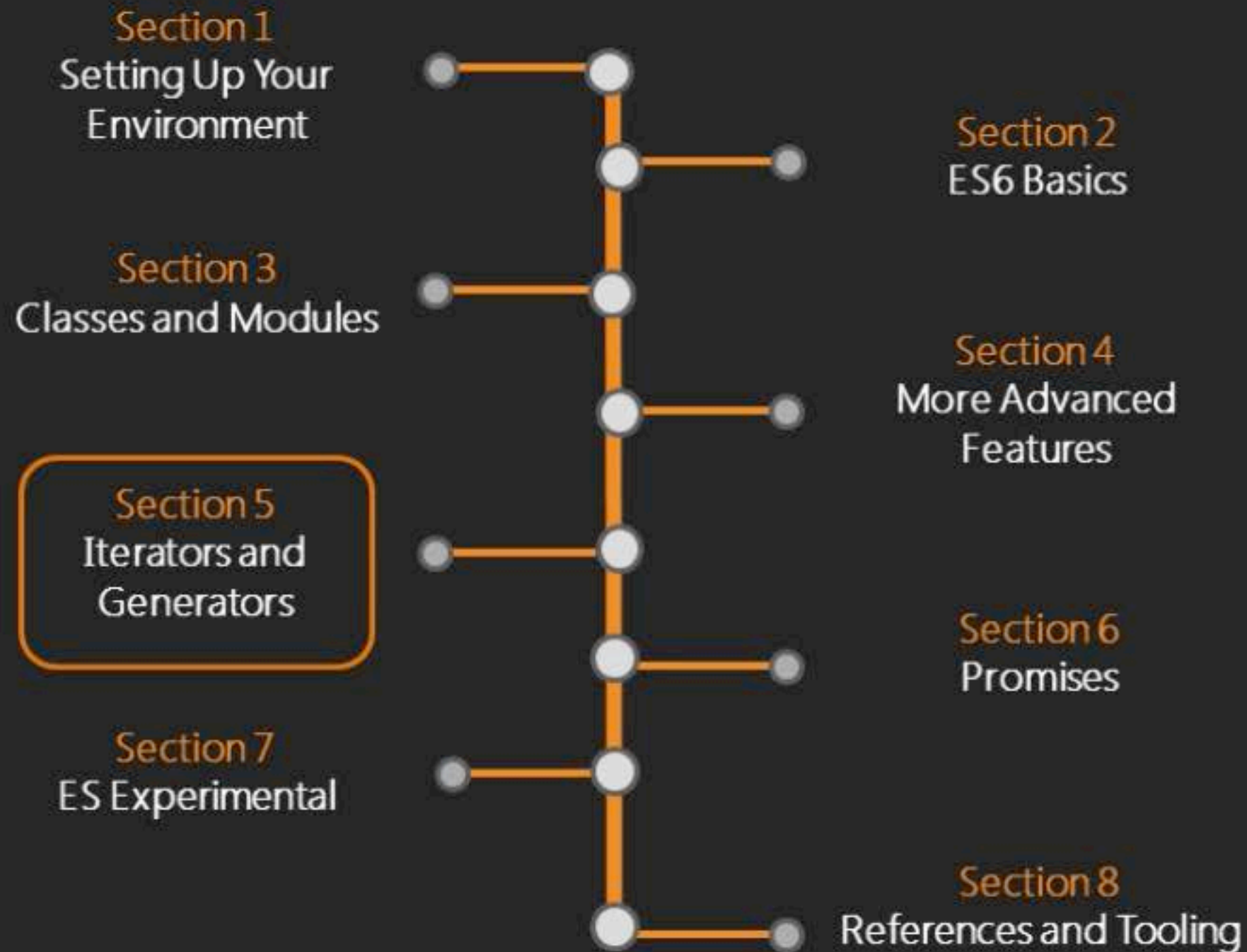
section4 x

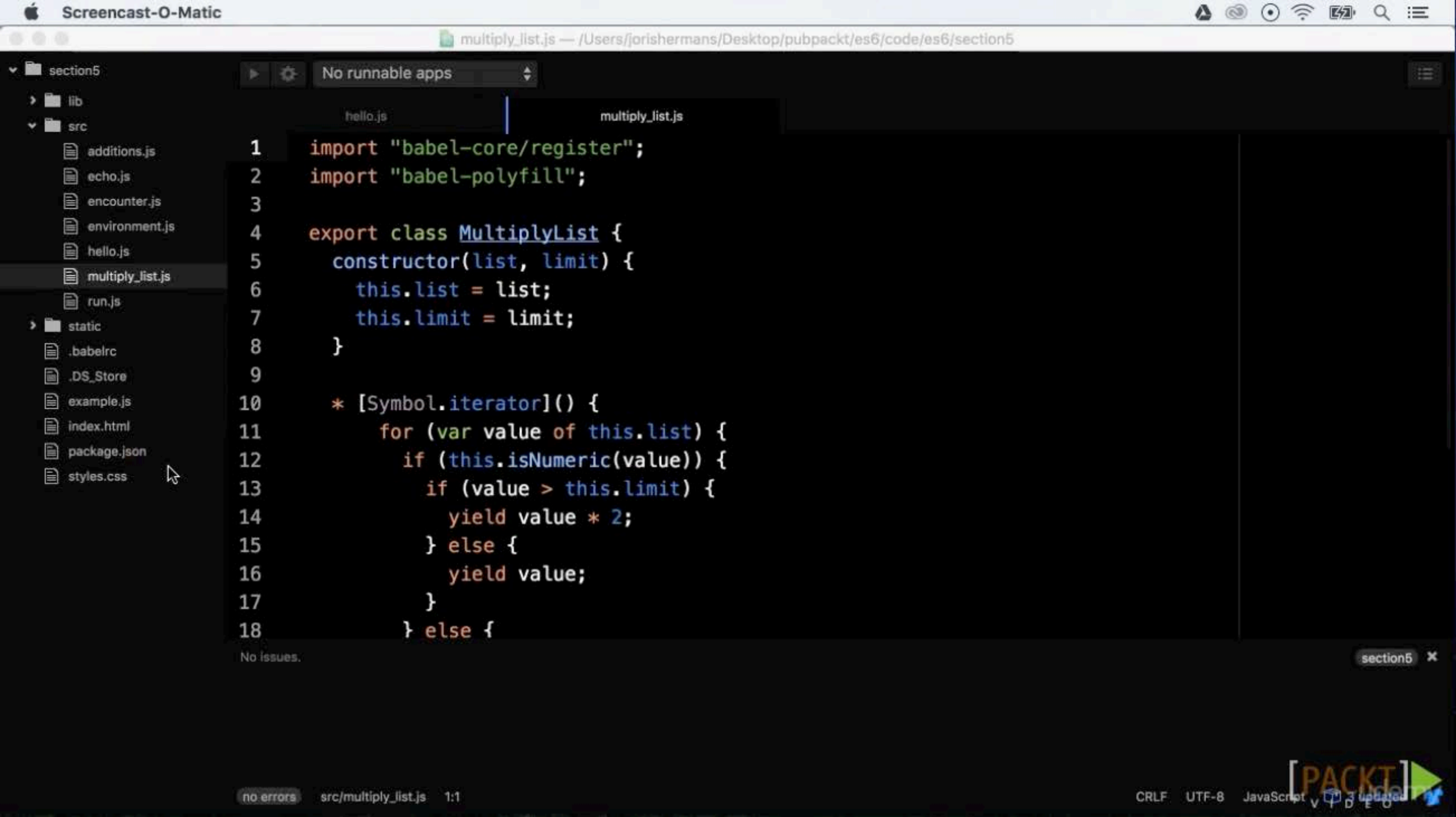
no errors example.js 1:1

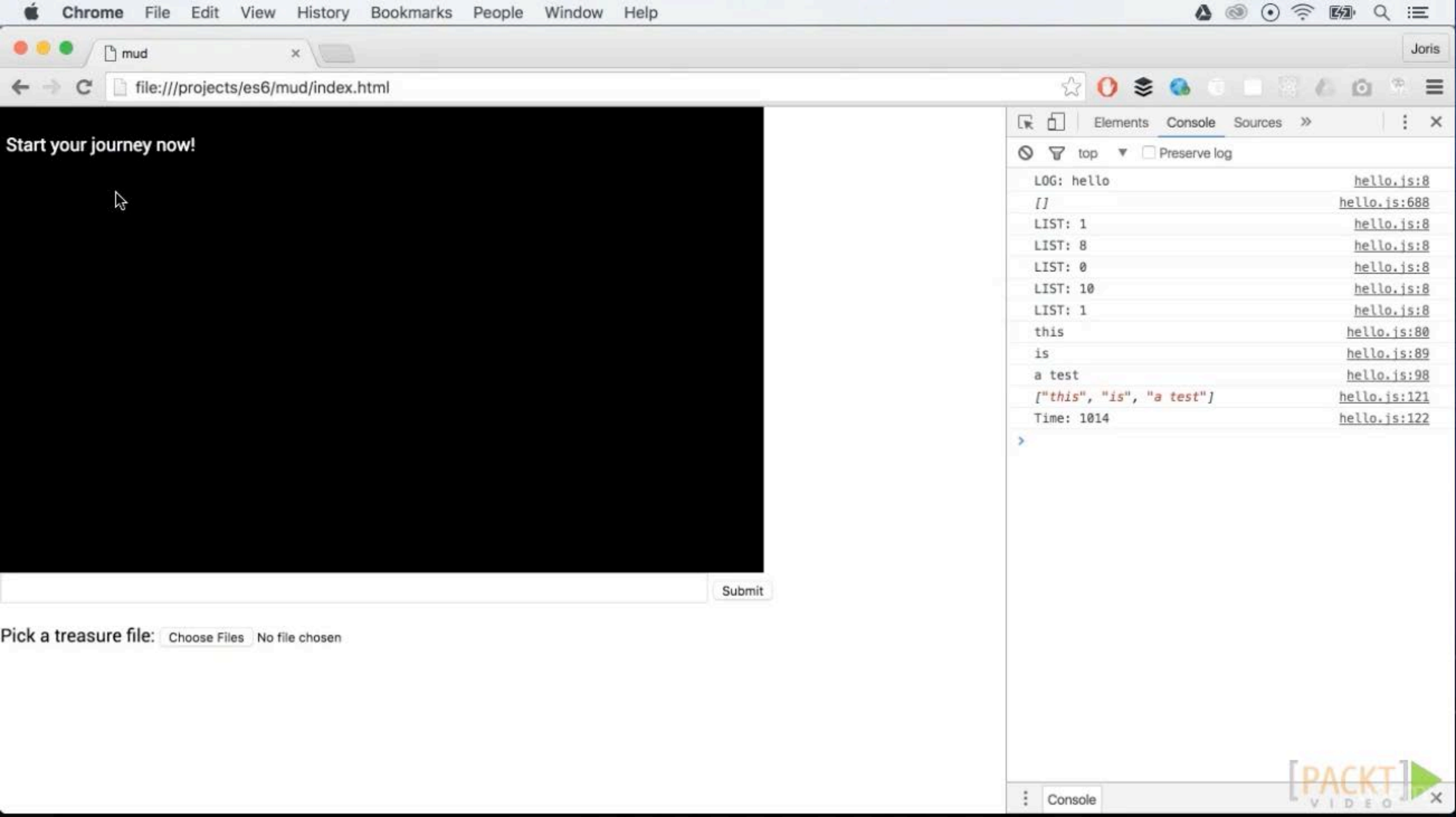
CRLF UTF-8 JavaScript v1.8.3 updated



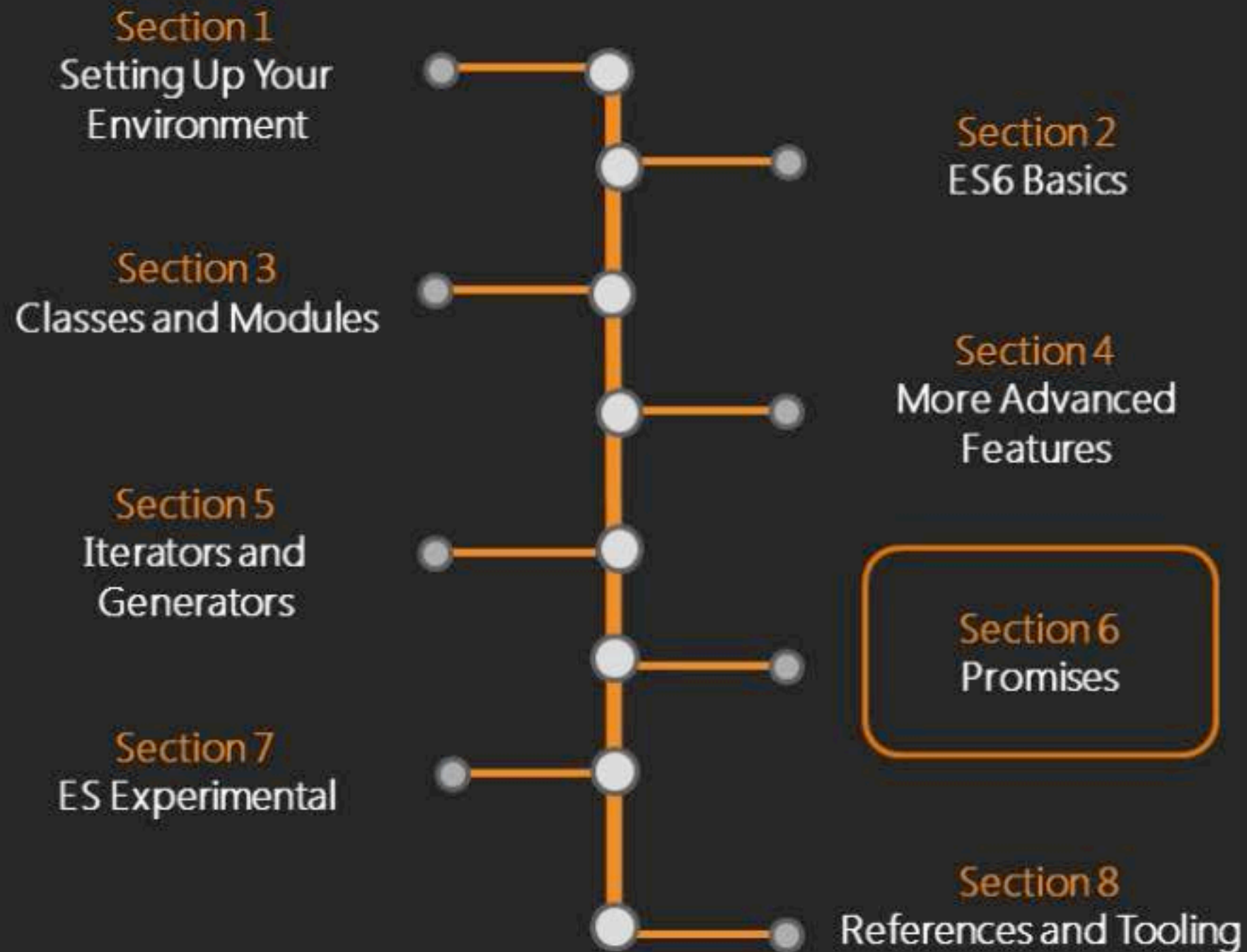
The Road Map







The Road Map

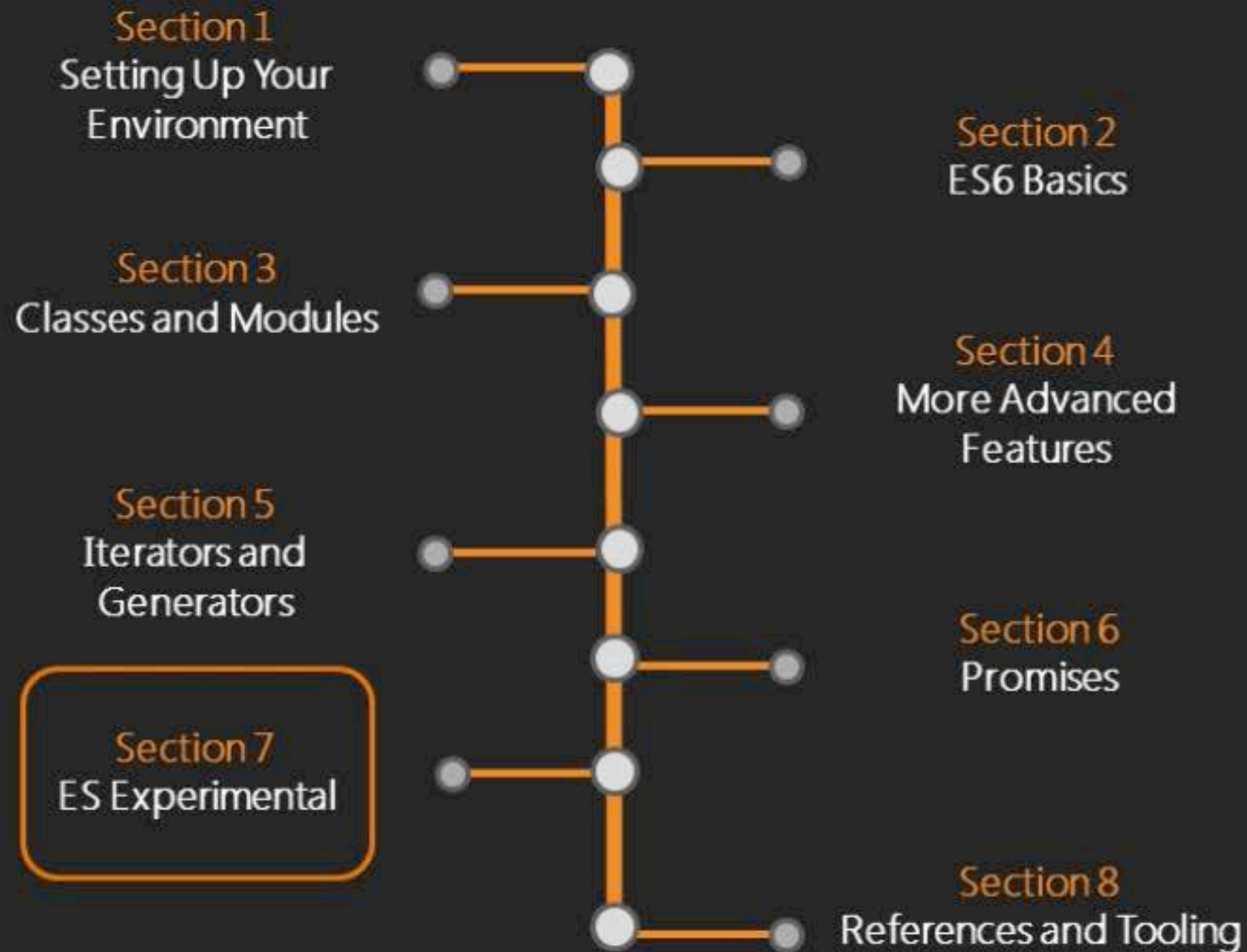


Elements Console Sources »

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[]	hello.js:688
LIST: 1	hello.js:8
LIST: 8	hello.js:8
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LIST: 1	hello.js:8
this	hello.js:80
is	hello.js:89
a test	hello.js:98
["this", "is", "a test"]	hello.js:121
Time: 1014	hello.js:122
FILE: [object Object],[object Object]	hello.js:8
FILE: [object Object],[object Object], [object Object],[object Object],[object Object], [object Object],[object Object],[object Object]	hello.js:8

Pick a treasure file: 2 files

The Road Map



ScreenCast-O-Matic


Go to Dashboard

Joris

Ecma TC39

GitHub, Inc. [US] https://github.com/tc39

Full requests issues Gist



Ecma TC39

Ecma International, Technical Committee 39 - ECMAScript

The web http://ecma-international.org/memento/...

Repositories

People 17

Filters

Find a repository...

ecmascript_sharedmem

HTML

114

3

Shared memory and atomics for ECMAScript

Updated an hour ago

test262

JavaScript

321

102

Official ECMAScript Conformance Test Suite

Updated 15 hours ago

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17 >



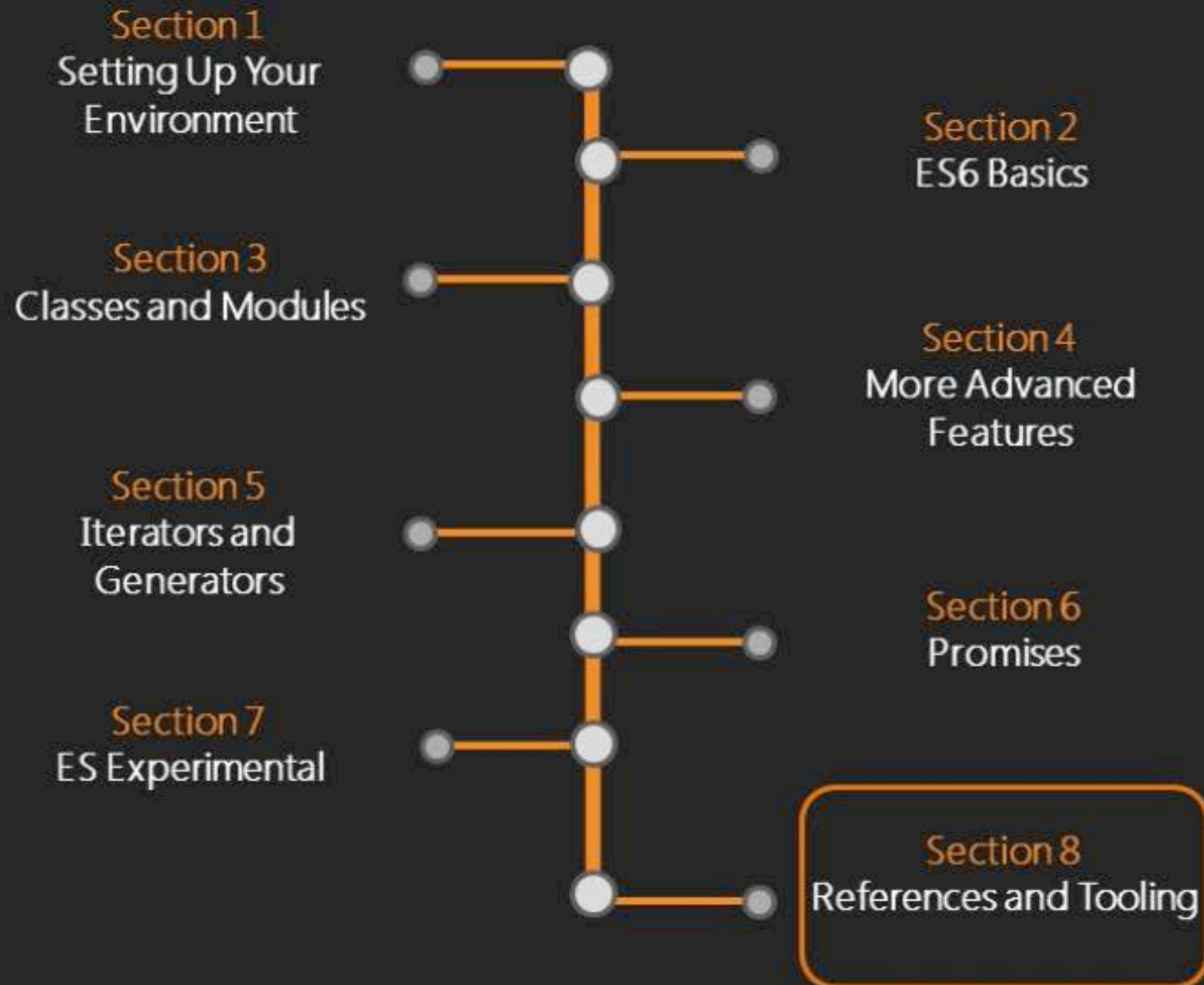
agendas

1x

4:49 / 5:43

PACKT VIDEO


The Road Map



ECMAScript

Active Proposals

Proposals follow [this process document](#).


	Proposal	Champion	Stage
	SIMD.JS - SIMD APIs + polyfill	John McCutchan, Peter Jensen, Dan Gohman, Daniel Ehrenberg	3
	Async Functions	Brian Terlson	3
	Trailing commas in function parameter lists and calls	Jeff Morrison	3
	Function.prototype.toString revision	Michael Ficarra	3
	Asynchronous Iterators	Kevin Smith	2
	function.sent metaproperty	Allen Wirfs-Brock	2
	Rest/Spread Properties	Sebastian Markbage	2
	Shared memory and atomics	Lars T Hansen	2
	System.global	Jordan Harband	2

Screencast-O-Matic

Flow | A static type checker


Joris

https://flowtype.org

flow docs try support blog

Search docs...

github

flow

A STATIC TYPE CHECKER FOR JAVASCRIPT

Type Inference

Flow uses type inference to find bugs even without type annotations. It precisely tracks the types of variables as they flow through your program.

Idiomatic JS

Flow is designed for JavaScript programmers. It understands common JavaScript idioms and very dynamic code.

Realtime Feedback

Flow incrementally rechecks your changes as you work, preserving the fast feedback cycle of developing plain JavaScript.

Flow can catch common bugs in JavaScript programs before they run, including:

- silent type conversions,

PACKT

VIDEO

[Pull requests](#) [Issues](#) [Gist](#)

Ecma International, Technical Committee 39 - ECMAScript

The web <http://ecma-international.org/memento/...>

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test262

JavaScript ★ 321 🔗 102

Official ECMAScript Conformance Test Suite

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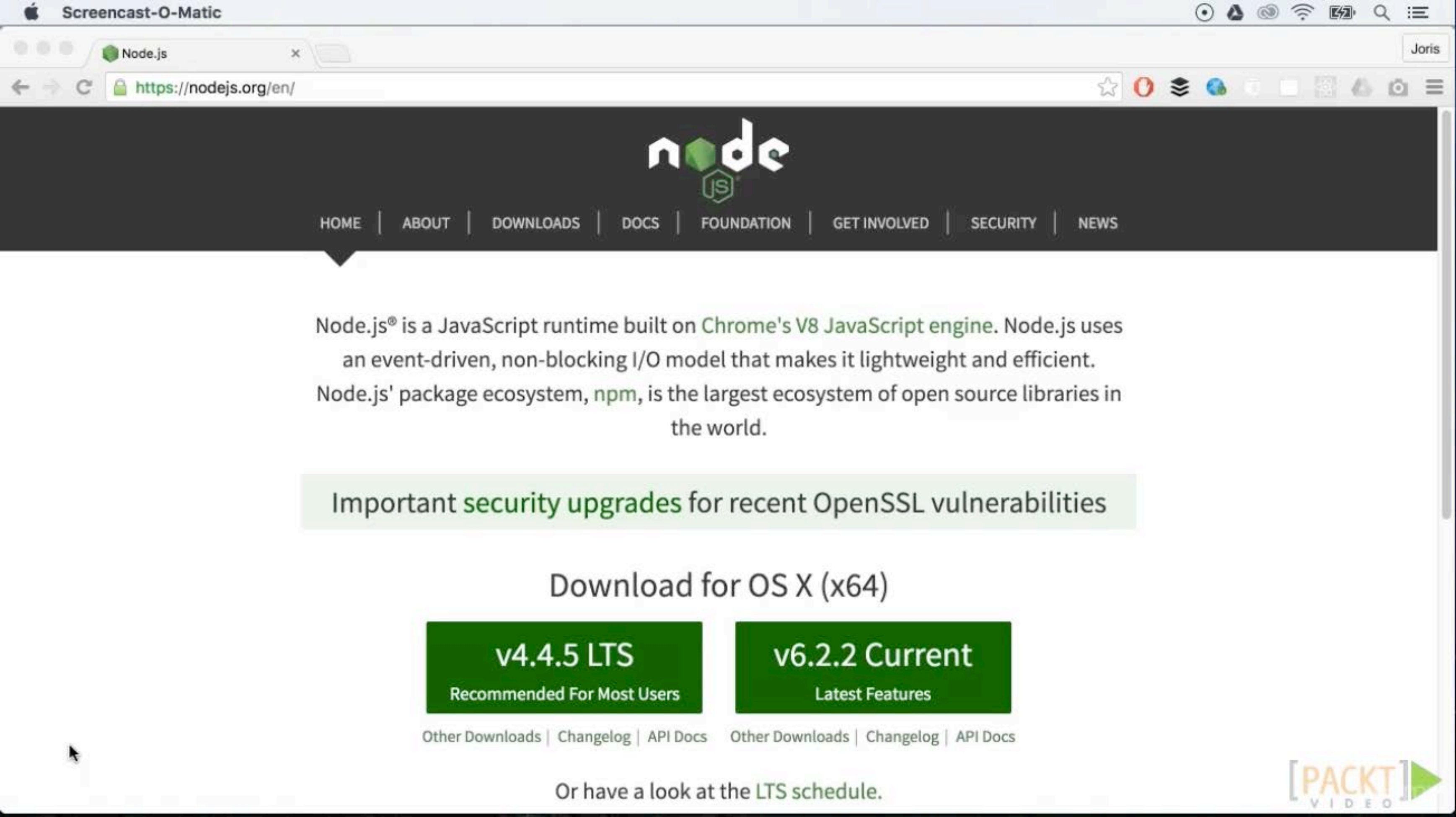
People

17 >



Prerequisites

- Knowledge of JavaScript
- Node.js and npm



- HOME
- ABOUT
- DOWNLOADS
- DOCS
- FOUNDATION
- GET INVOLVED
- SECURITY
- NEWS

Node.js® is a JavaScript runtime built on [Chrome's V8 JavaScript engine](#). Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, [npm](#), is the largest ecosystem of open source libraries in the world.

Important [security upgrades](#) for recent OpenSSL vulnerabilities

Download for OS X (x64)

v4.4.5 LTS

Recommended For Most Users

v6.2.2 Current

Latest Features

[Other Downloads](#) | [Changelog](#) | [API Docs](#) [Other Downloads](#) | [Changelog](#) | [API Docs](#)

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