

Joshua Johanan



About Me

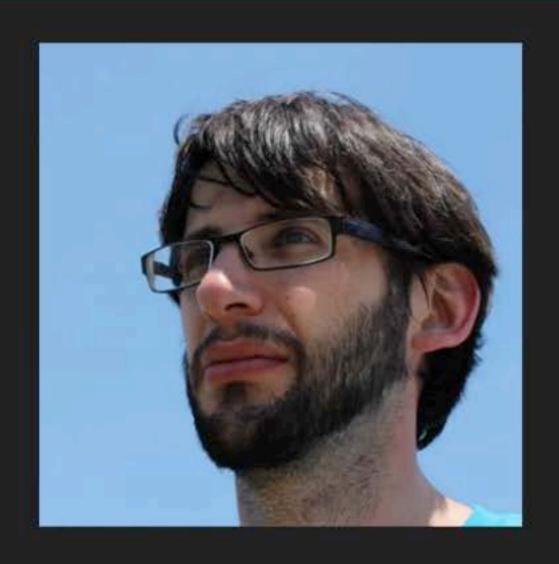
- Author of Building Scalable Apps in Redis and Node.js and Web Developer's Reference Guide
- Over 10 years developer experience
- Used many languages and frameworks







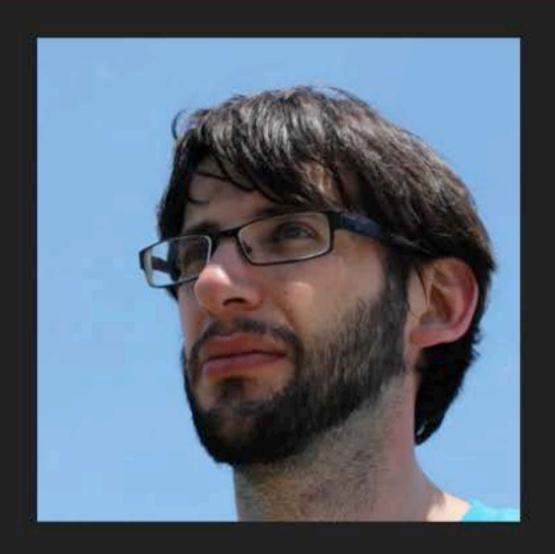






About Me

- Author of Building Scalable Apps in Redis and Node.js and Web Developer's Reference Guide
- Over 10 years developer experience
- Used many languages and frameworks
- Blogs at http://ejosh.co/de/





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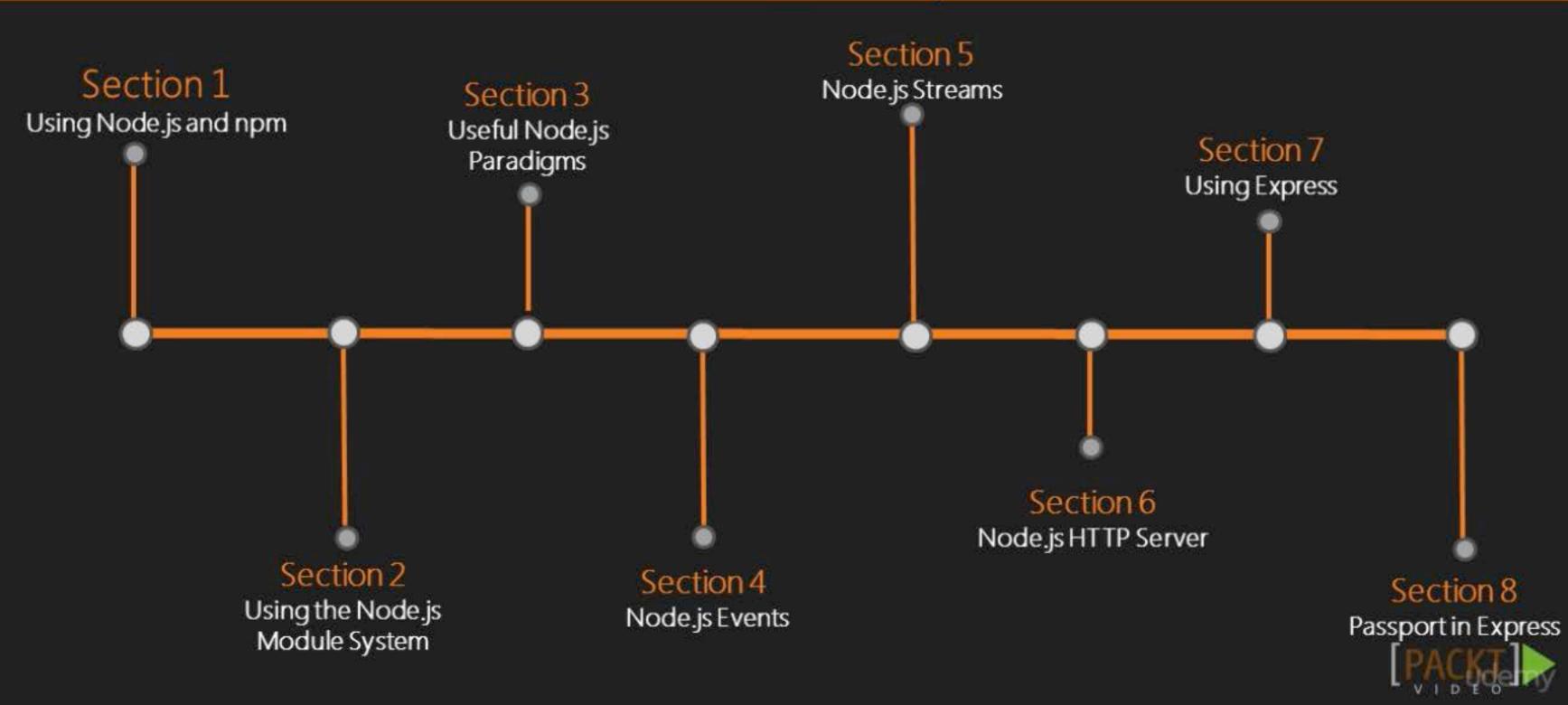
Video 1.1

The Course Overview





The Road Map



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Section 1

Using Node.js and npm



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

- Installing Node.js
- Node.js REPL
- Node.js is JavaScript
- Installing a package with npm



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Video 1.2

Installing Node.js



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

- Installing Node.js
- Running Node.js





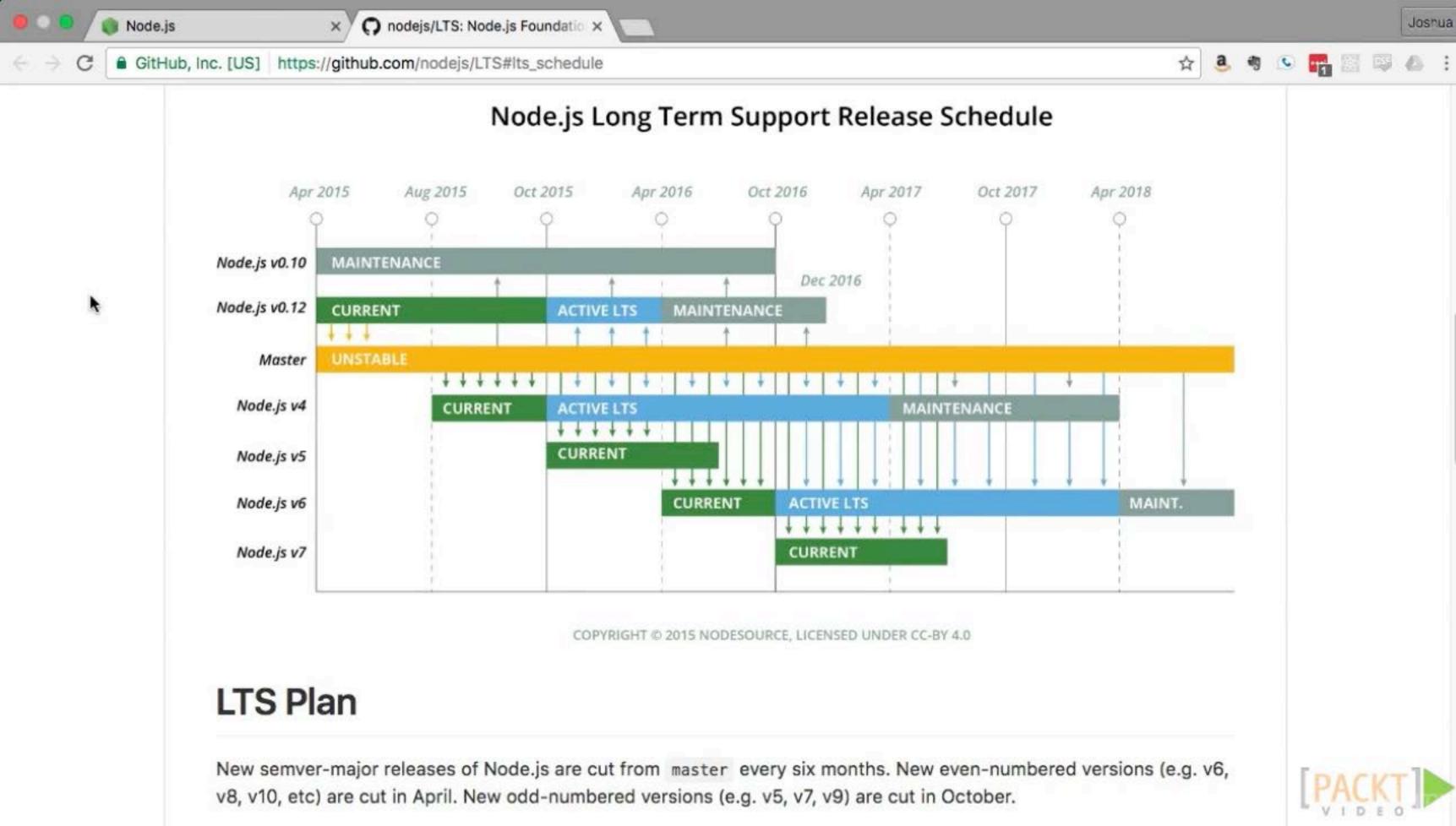
Important security upgrades for recent V8 vulnerability

Download for OS X (x64)



Or have a look at the LTS schedule.





```
Joshuas-Mini:Section1.2 jjohanan$ node --help
Usage: node [options] [ -e script | script.js ] [arguments]
      node debug script.js [arguments]
Options:
 -v, --version
                       print Node.js version
                        evaluate script
 -e, --eval script
                       evaluate script and print result
 -p, --print
 -c, --check
                       syntax check script without executing
 -i, --interactive
                       always enter the REPL even if stdin
                        does not appear to be a terminal
  -r, --require
                       module to preload (option can be repeated)
  --no-deprecation
                       silence deprecation warnings
  --trace-deprecation
                       show stack traces on deprecations
  --throw-deprecation
                       throw an exception anytime a deprecated function is used
  --no-warnings
                        silence all process warnings
                        show stack traces on process warnings
  --trace-warnings
  --trace-sync-io
                        show stack trace when use of sync IO
                        is detected after the first tick
  --track-heap-objects track heap object allocations for heap snapshots
  --prof-process
                        process v8 profiler output generated
                       using --prof
  --zero-fill-buffers
                       automatically zero-fill all newly allocated
                        Buffer and SlowBuffer instances
  --v8-options
                        print v8 command line options
```

Joshuas-Mini:Section1.2 jjohanan\$ clear



```
show stack trace when use of sync IO
--trace-sync-io
                      is detected after the first tick
--track-heap-objects
                     track heap object allocations for heap snapshots
--prof-process
                      process v8 profiler output generated
                     using --prof
--zero-fill-buffers
                     automatically zero-fill all newly allocated
                     Buffer and SlowBuffer instances
                     print v8 command line options
--v8-options
--v8-pool-size=num set v8's thread pool size
--tls-cipher-list=val use an alternative default TLS cipher list
--icu-data-dir=dir
                     set ICU data load path to dir
                      (overrides NODE_ICU_DATA)
--preserve-symlinks
                     preserve symbolic links when resolving
                     and caching modules.
```

Environment variables:

NODE_PATH

':'-separated list of directories

prefixed to the module search path.

NODE_DISABLE_COLORS

NODE_ICU_DATA

NODE_REPL_HISTORY

':'-separated list of directories

prefixed to the module search path.

set to 1 to disable colors in the REPL

data path for ICU (Intl object) data

path to the persistent REPL history file

Documentation can be found at https://nodejs.org/ loshuas-Mini:Section1.2 jjohanan\$ node -v v6.3.1



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Video 1.3

Node.js REPL



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

- What is a REPL
- Using Node.js REPL
- Building a custom REPL



```
Symbol
                               Uint16Array
                                                              Uint32Array
                               Uint8ClampedArray
Uint8Array
                                                              WeakMap
WeakSet
                                                              assert
                               child_process
buffer
                                                              clearImmediate
clearInterval
                               clearTimeout
                                                              cluster
console
                               crypto
                                                              dgram
dns
                               domain
                                                              escape
                               fs
                                                              global
events
                                                              module
http
                               https
net
                                                              path
                               os
                                                              querystring
                               punycode
process
readline
                                                              require
                               repl
                                                              setInterval
                               setImmediate
root
setTimeout
                                                              string_decoder
                               stream
tls
                               tty
                                                              unescape
                               util
url
                                                              v8
                               zlib
Vm
__defineGetter__
                               __defineSetter__
                                                              __lookupGetter__
__lookupSetter__
                               __proto__
                                                              constructor
                               isPrototypeOf
                                                              propertyIsEnumerable
hasOwnProperty
                                                              value0f
toLocaleString
                               toString
```

> setInterval

[Function]

Joshuas-Mini:Section1.3 jjohanan\$ node project_specific.js



Intl	Мар	Promise
Proxy	Reflect	Set
Symbol	Uint16Array	Uint32Array
Uint8Array	Uint8ClampedArray	WeakMap
WeakSet	_	assert
buffer	child_process	clearImmediate
clearInterval	clearTimeout	cluster
console	crypto	dgram
dns	domain	escape
events	fs	global
http	https	module
net	os	path
process	punycode	querystring
readline	repl	require
root	section13	setImmediate
setInterval	setTimeout	stream
string_decoder	tls	tty
unescape	url	util
v8	Vm	zlib
defineGetter	defineSetter	lookupGetter
lookupSetter	proto	constructor
hasOwnProperty	isPrototypeOf	propertyIsEnumerable
toLocaleString	toString	valueOf



Uint8Array Uint8ClampedArray WeakMap WeakSet assert child_process buffer clearImmediate clearInterval clearTimeout cluster console crypto dgram dns domain escape fs global events http https module path net OS punycode querystring process readline repl require section13 setImmediate root setInterval setTimeout stream string_decoder tls tty url util unescape zlib v8 Š __defineGetter__ __defineSetter__ __lookupGetter__ __lookupSetter__ __proto__ constructor hasOwnProperty isPrototypeOf propertyIsEnumerable toLocaleString toString value0f

Section1.3>section13()
Loaded a module
undefined
Section1.3>



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Video 1.4

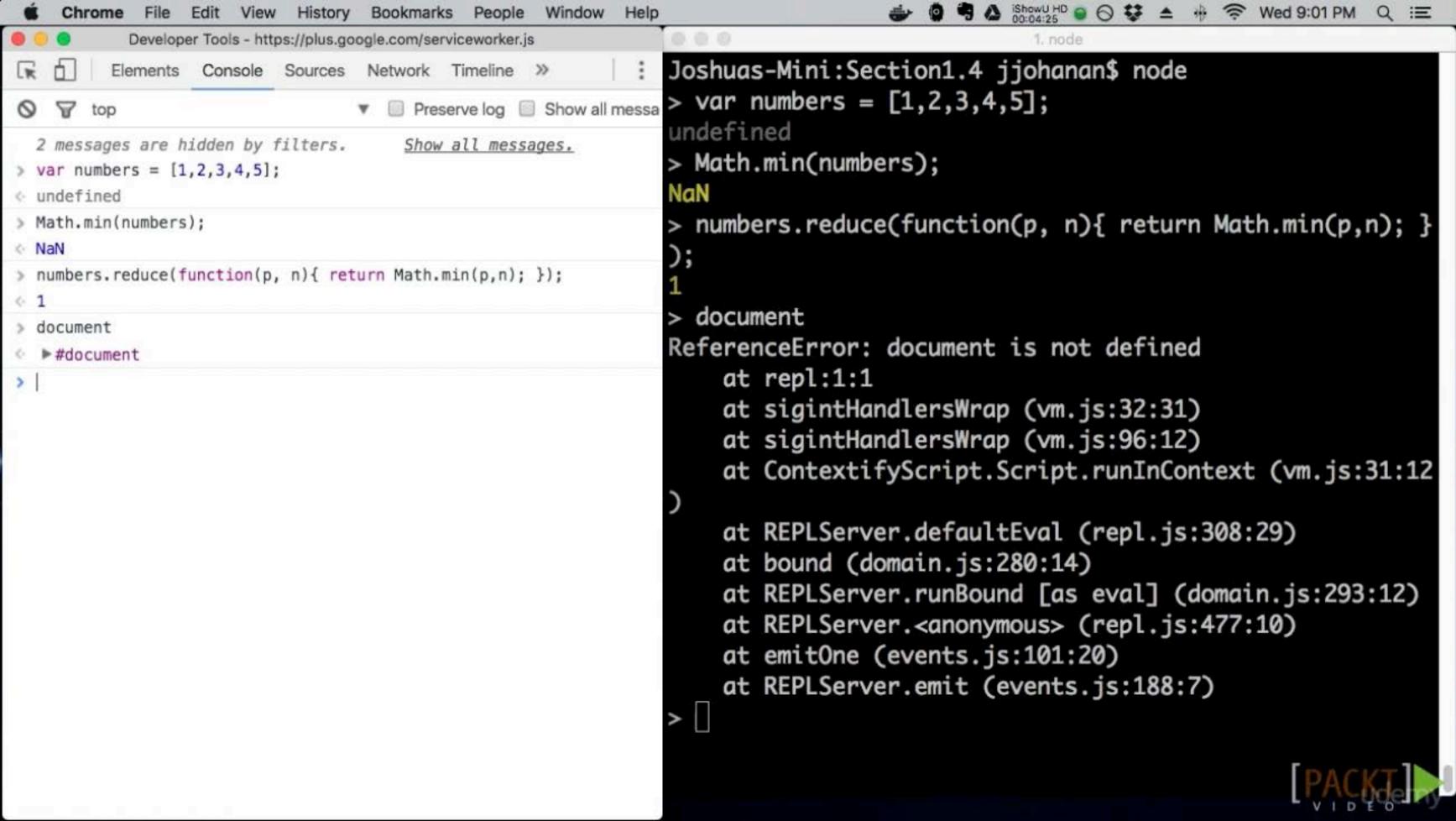
Node.js Is JavaScript

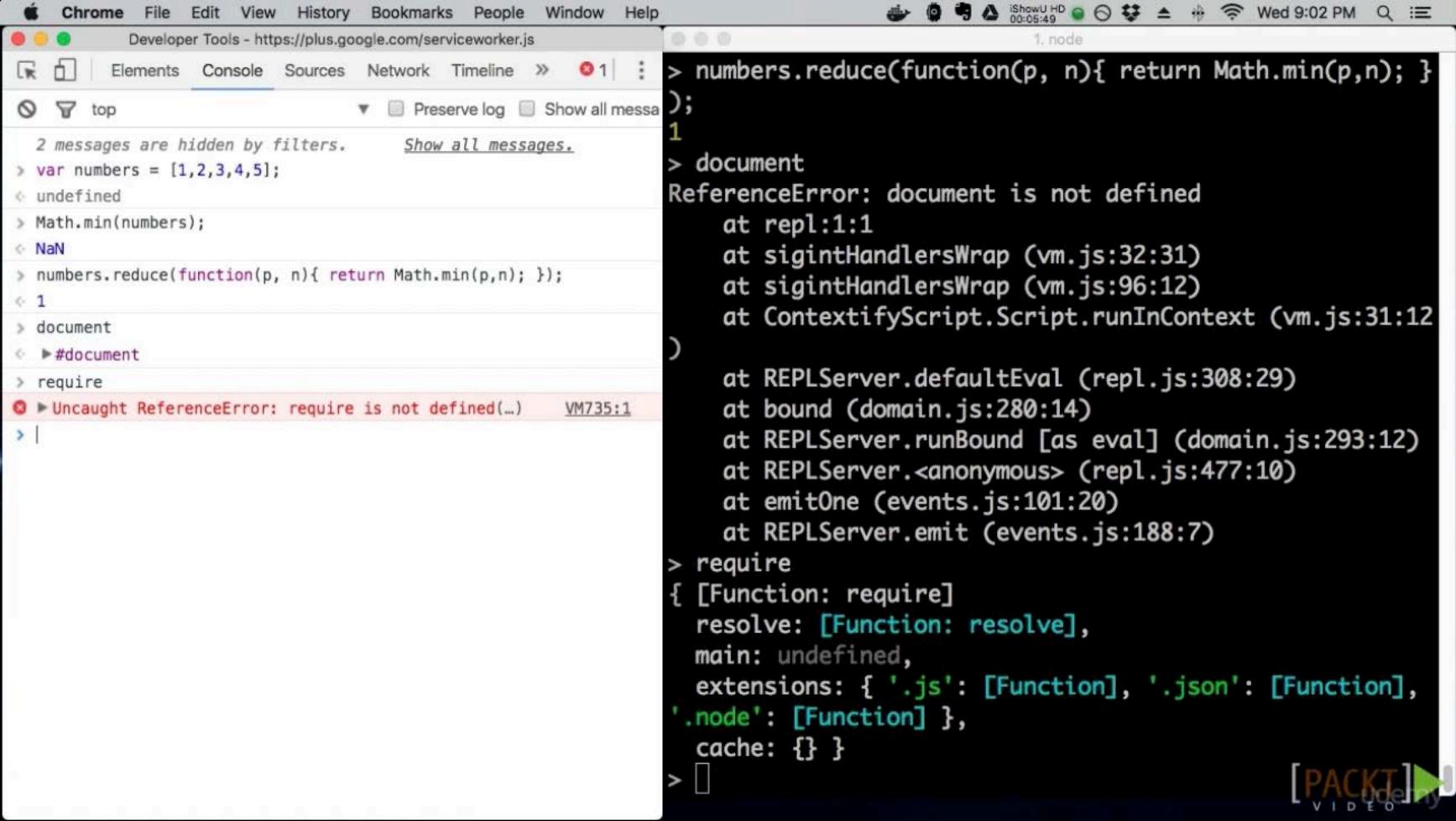


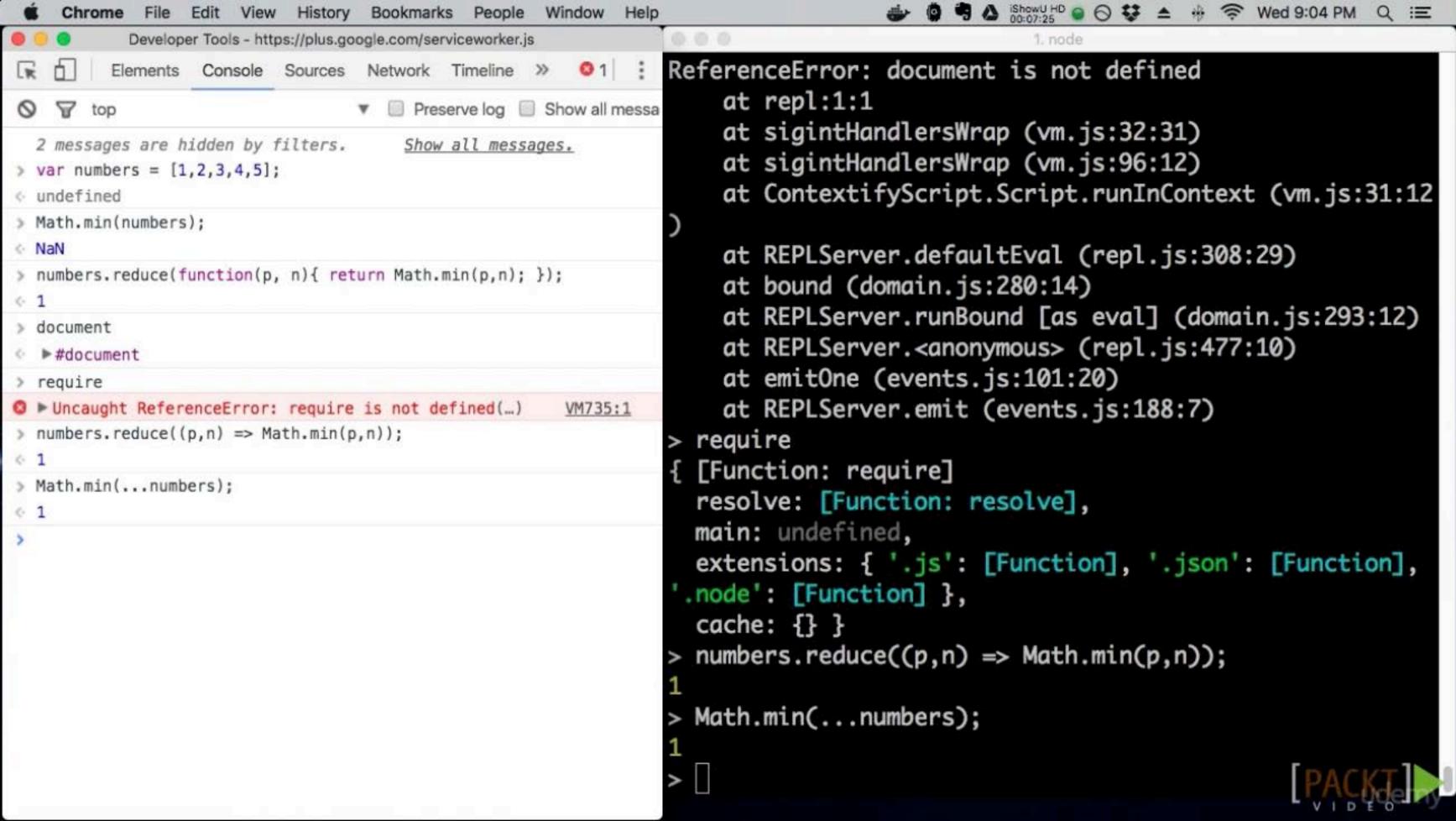
In this Video, we are going to take a look at...

- Node.js is built on V8
- Node.js runs JavaScript with some caveats
- Node.js is ES2015 compliant









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Video 1.5

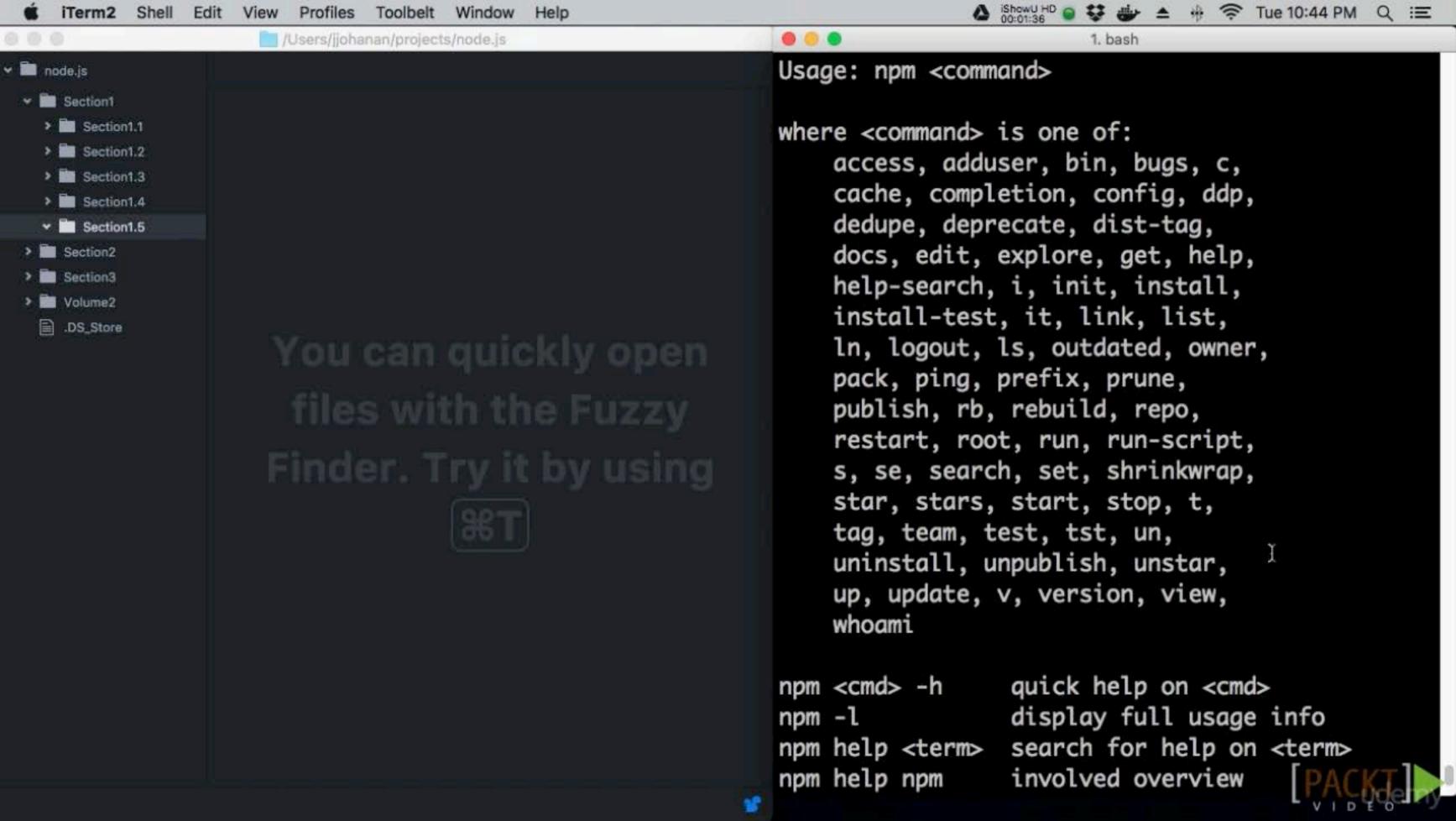
Installing a Package with npm

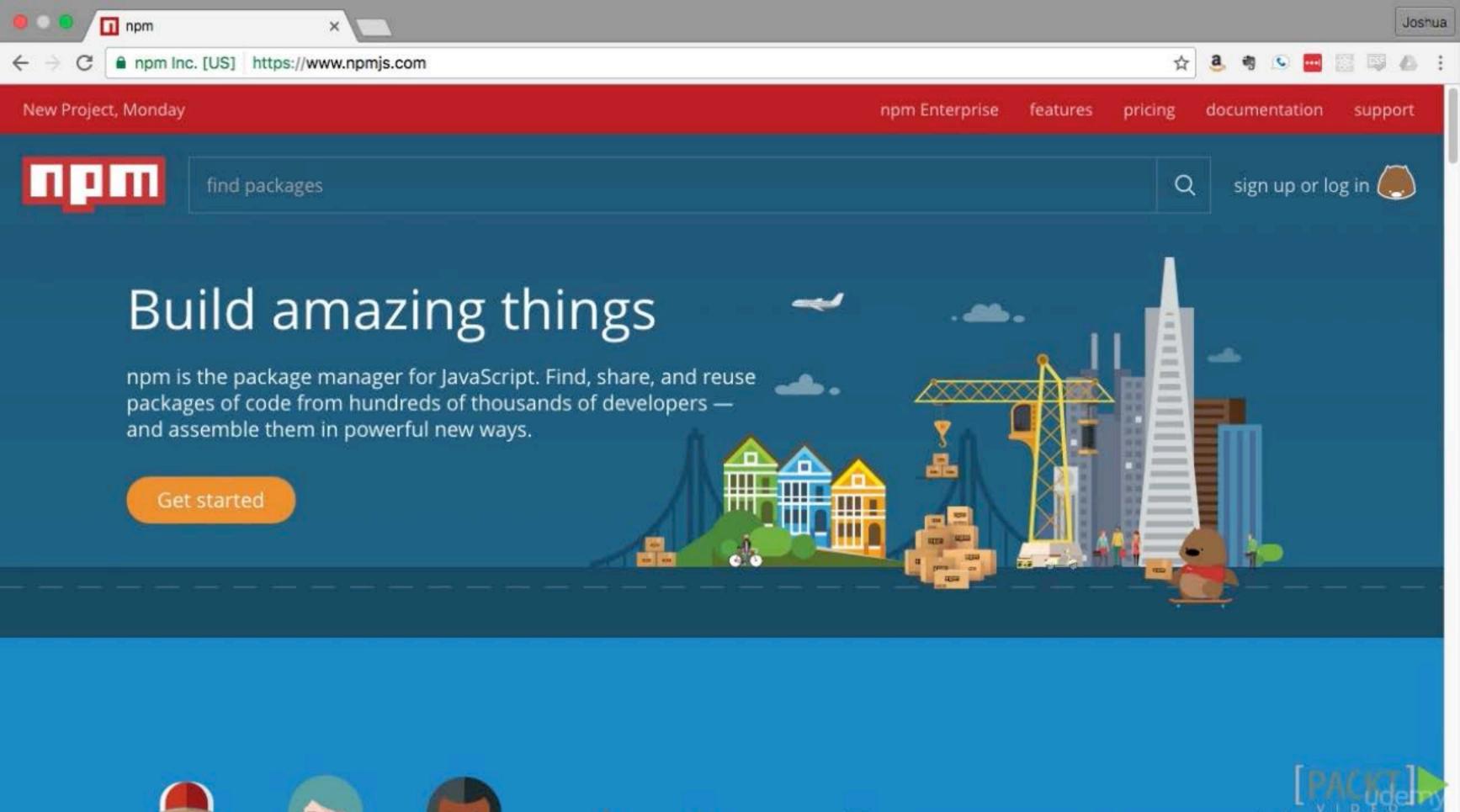


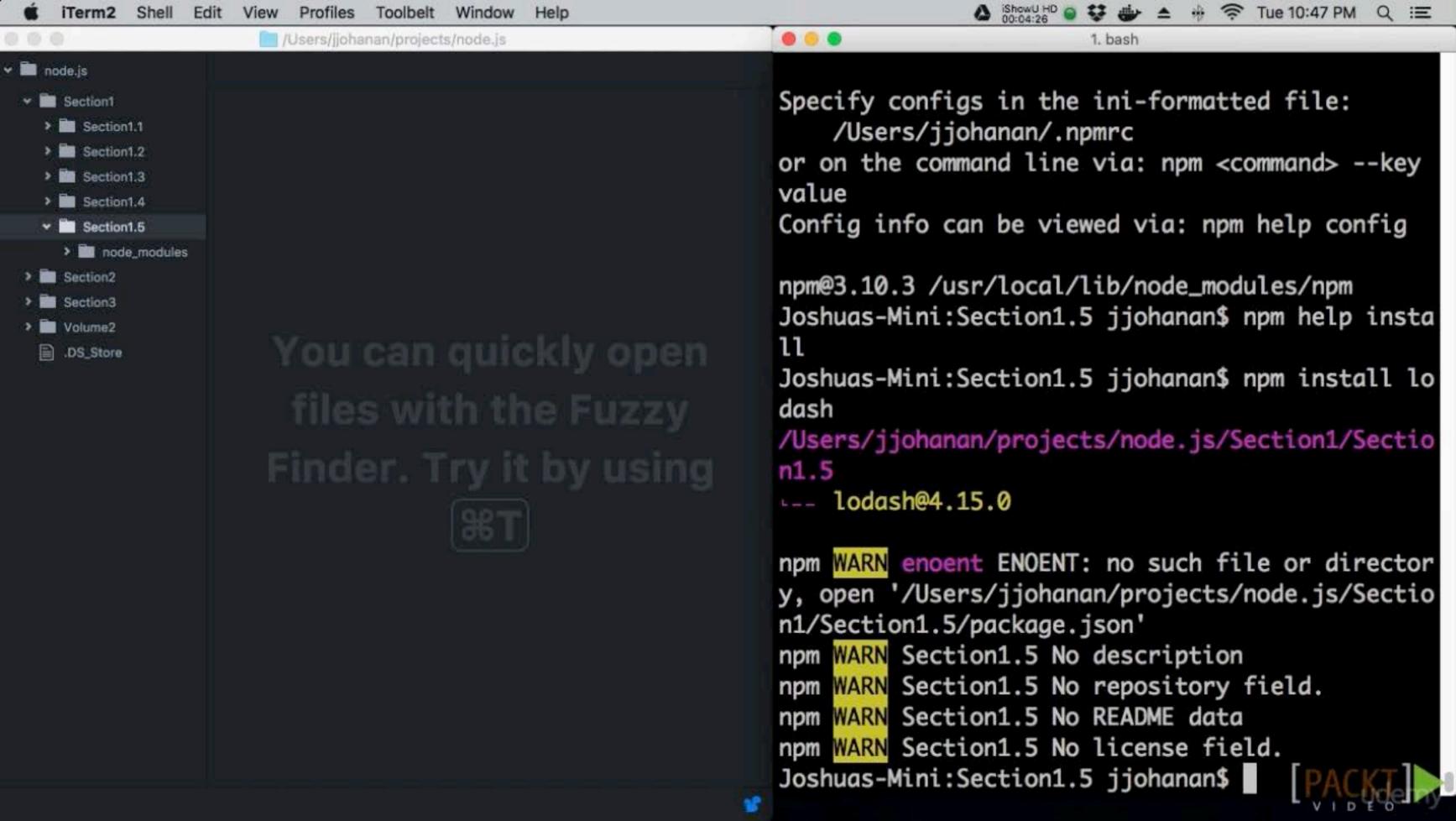
In this Video, we are going to take a look at...

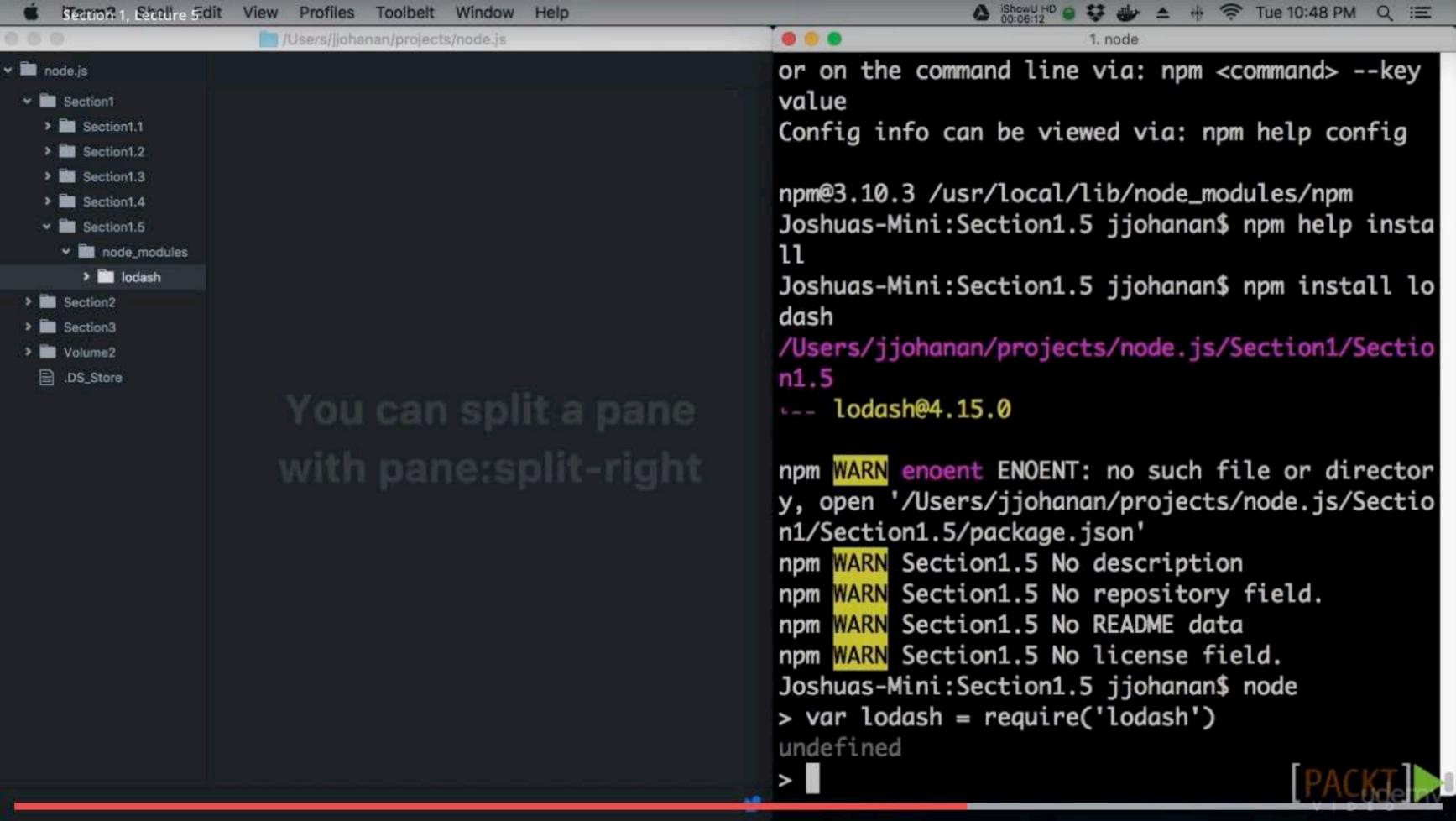
- Installing a package with npm
- Loading the package in the REPL
- Uninstalling the package with npm

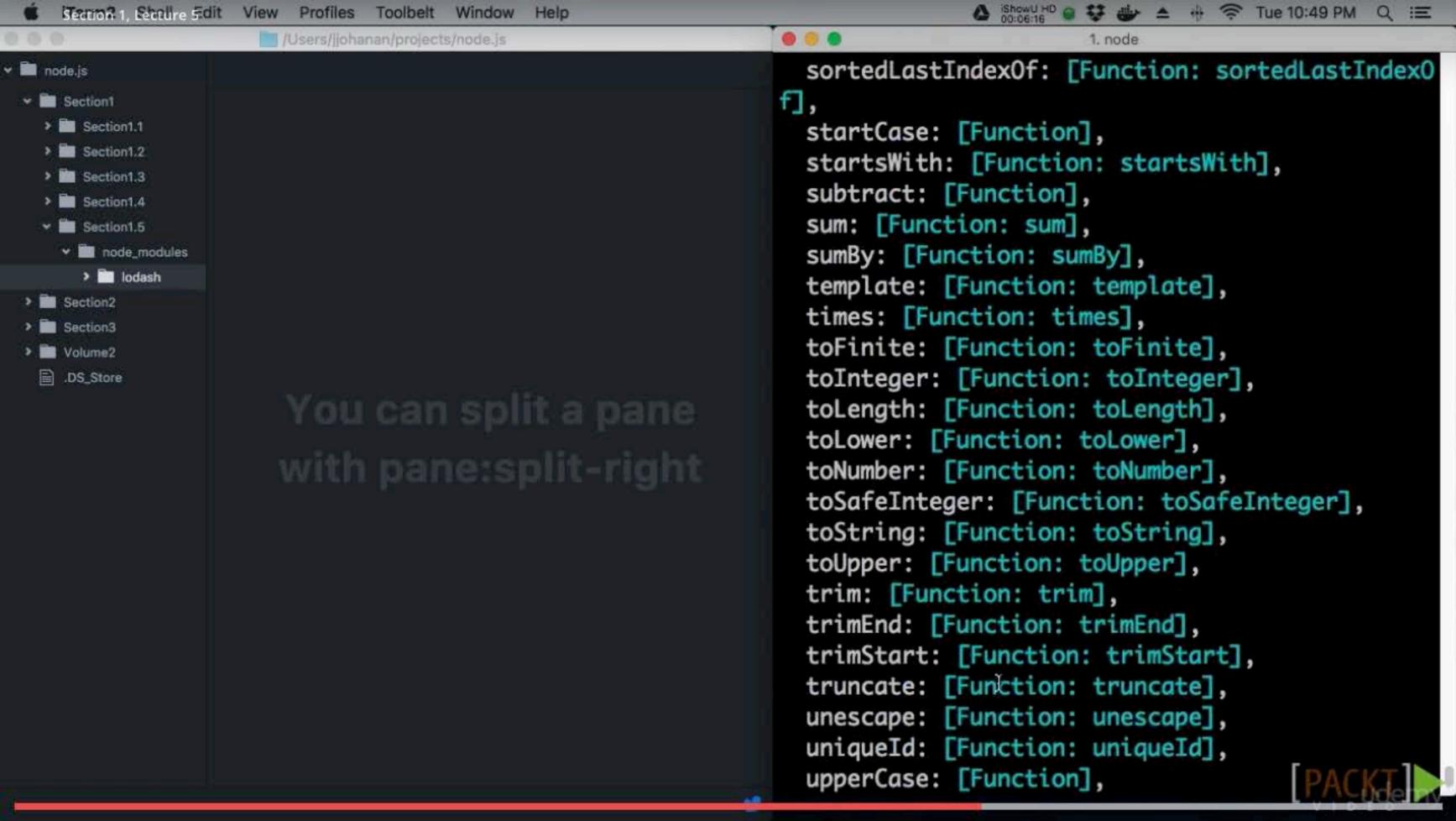


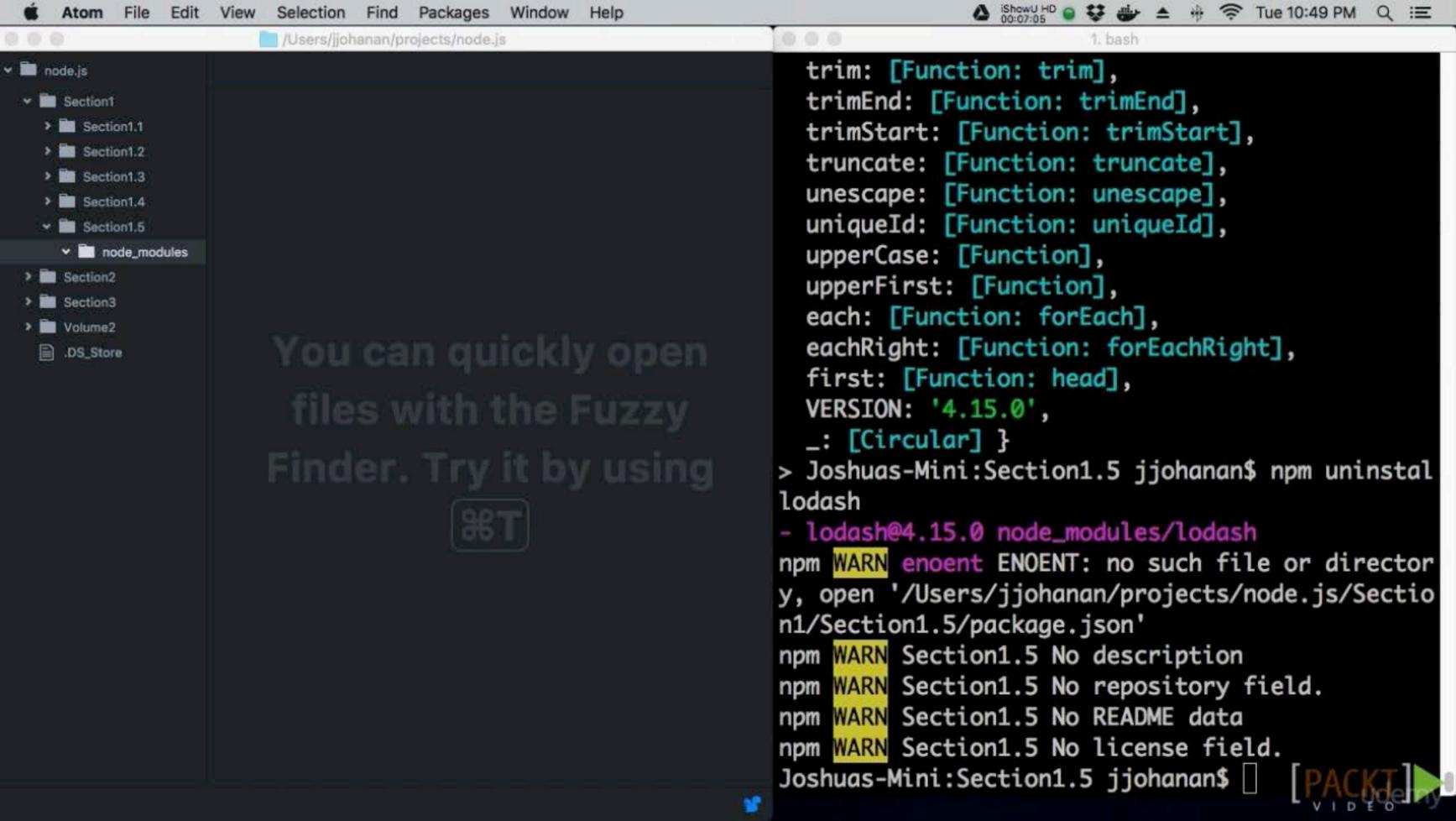












Summary

- Installed Node.js
- Learned what a REPL is
- Learned about Node.js and JavaScript
- Used npm

