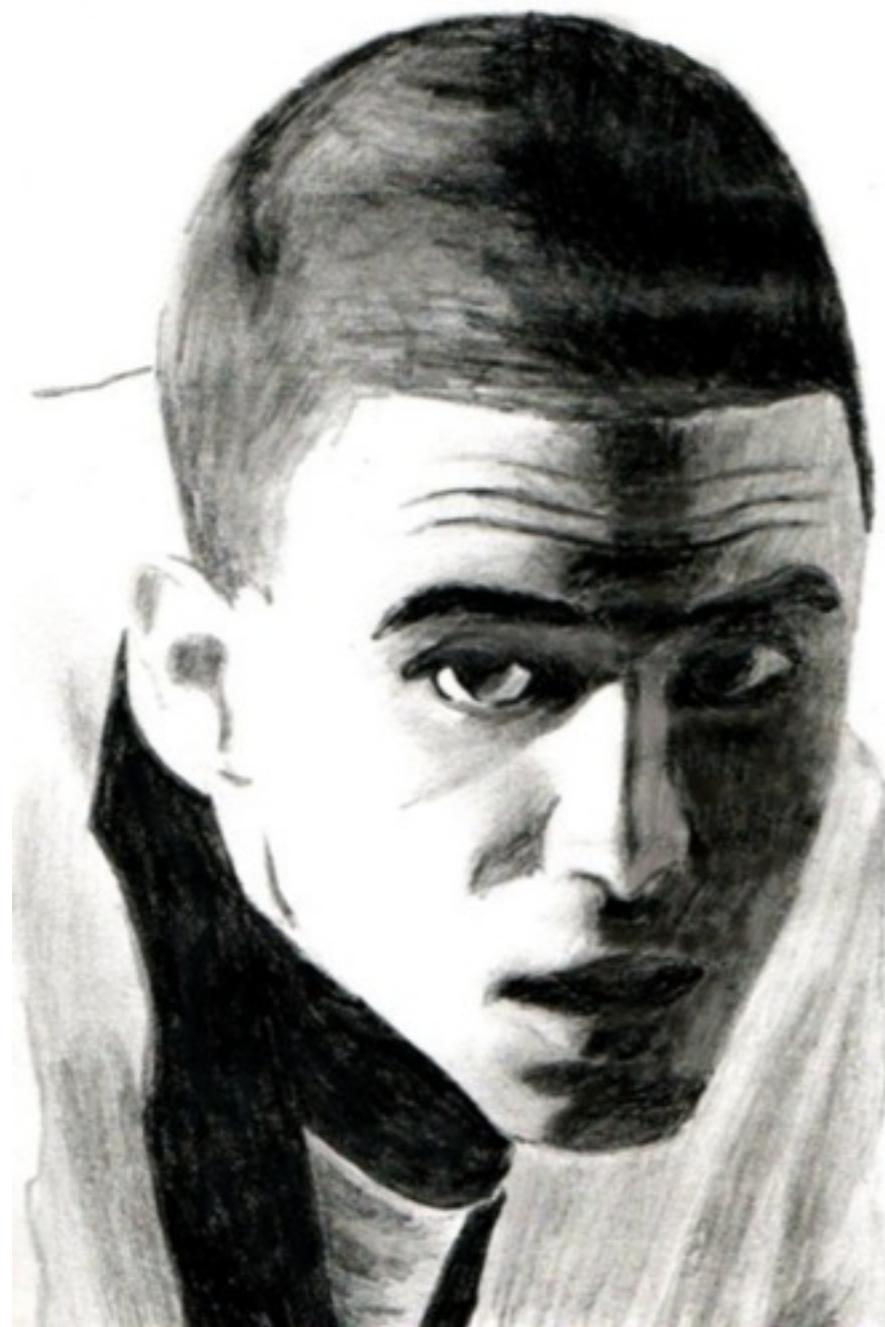


# five-lines

深入浅出 node 命令行工具



# Jacob Groundwater



0x604



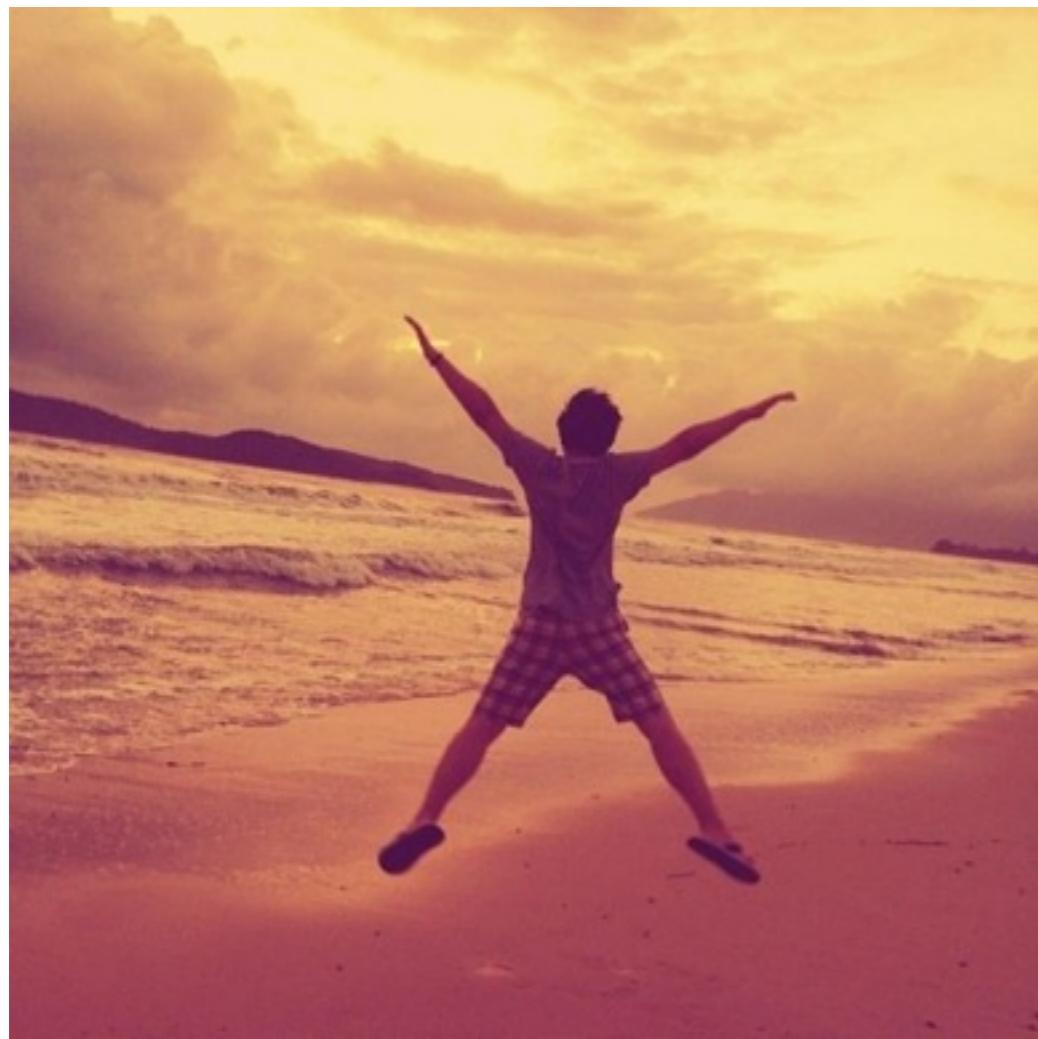
groundwater

# Jacob Groundwater



**analytics  
performance**

# **dead\_horse**



[deadhorse\\_busi](#)  
[dead-horse](#)

**i like to experiment  
with node.js**

**我喜欢用 node.js  
做些有意思的东西**

**i want to share  
my experiments**

**我想分享一下我  
的一些项目**

# **build web servers with node**

用 node 写一个  
web 服务器

# **five-line web server**

**5行代码的 web  
服务器**

```
var http = require('http');

var handle = function (req,res){
    res.end("Hello World")
}

var server = http.createServer(handle);

server.listen(8080);
```

**what else can we  
build with node?**

**我们还能用  
node 做些什么？**

# **five-line shell command**

**5行代码的命令行  
工具**

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

var website = process.argv[2]

require('http').request(website, function(site){
  site.pipe(process.stdout)
}).end()
```

more than  
five lines?

更复杂的？

can we build a  
shell with node?

用 node 写一个  
shell(bash)?

# shell ingredients

- type command 输入命令
- run process 运行进程
- display outputs 打印输出

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

```
var spawn = require('child_process').spawn  
var readline = require('readline')
```

```
var iface = readline.createInterface({  
  input : process.stdin,  
  output : process.stdout})
```

```
function prompt(){  
  iface.question("# ", function (line) {  
    var args = line.split(/\s+/)  
    var exec = args.shift()  
    var opts = {stdio: 'inherit'}  
    spawn(exec,args,opts).on('exit', prompt)})}
```

```
prompt()
```

```
browbtf()
```

13 lines

**build a remote  
shell?**

甚至写一个远程执  
行的 shell(ssh) ?

# remote shell

- type command locally 本地输入命令
- send over network 通过网络传输到服务端
- execute on remote server 在服务端执行命令
- display output locally 在本地显示输出





groundwater / node-wssh

[Unwatch](#) 1

## WebSocket Shell Server and Client — Edit

9 commits

1 branch

1 release

1 contributor



branch: **master** ▾

**node-wssh** / +



0.1.0

 groundwater	authored on May 19	latest commit af20fde258 
 .gitignore	websocket shell server and client	6 months ago
 README.md	use local nsh	a month ago
 package.json	0.1.0	a month ago
 server.js	use local nsh	a month ago
 wssh.js	betterify wssh	6 months ago

 README.md

# WSSH

— Websocket Shell Server and Client Like SSH but over HTTP

Starts [nsh](#) by default, so you should probably install that `npm i -g bin-nsh` or change the shell in the source.

# all together

- nsh shell
- wssh remote terminal
- npkg starts packages
- hip text editor



**what else  
can we build?**

**还能做些更疯  
狂的东西么？**

**can we build an  
operating system?**

**用 node 来实现  
一个操作系统？**

# OS ingredients

- kernel
- shell
- package manager

# node-os

- linux kernel
- node shell
- npm package manager

**five-line  
operating system?**

**5行代码的操作系  
统？**

**maybe soon**



**node-os.com**



@thenodeos

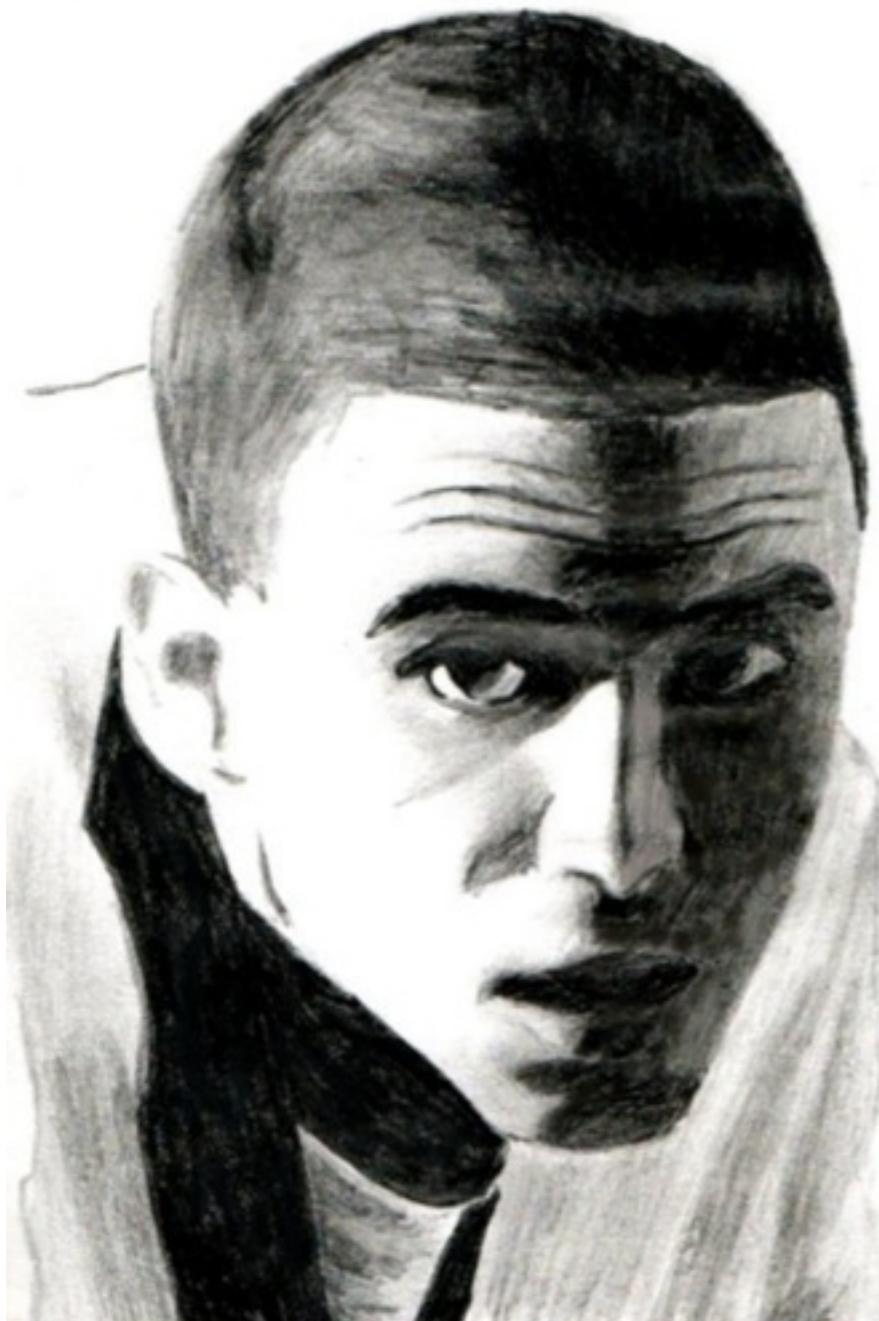
**try something new  
with node**

用 node 来做  
一些新的东西！

**thank you**

**謝謝**

# Jacob Groundwater



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