

# Node.js

## Node.js

- Node JavaScript
- Node.js Chrome V8 JavaScript
- Node.js I/O
- Node.js npm
- Node.js Javascript

- node -v
- 0.x ES6
- 4.x ES6
- 5.x ES6 4.x
- 6.x 98% ES6
- 8.x ES6

- node -v

## REPL( )

node REPL Javascript node RE

## Node.js

REPL Javascript js html script js

## Node.js

Node.js

1. (b.js)

```
//b.js
function FunA(){
    return 'Tom';
}
```

```
}  
//    FunA  
module.exports = FunA;
```

## 2. (a.js)

```
//a.js  
var FunA = require('./b.js');// b.js => FunA  
var name = FunA();//    FunA name = 'Tom'  
console.log(name); //
```

# module.exports

module.exports Node.js

```
module.exports = FunA;
```

require('./b.js') undefined module.exports

# exports

exports module js module.exports exp

```
function FunA(){  
    return 'Tom';  
}  
  
function FunB(){  
    return 'Sam';  
}  
  
exports.FunA = FunA;  
exports.FunB = FunB;
```

```
//FunA = exports, exports
var FunA = require('./b.js');
var name1 = FunA.FunA(); //    FunA name = 'Tom'
var name2 = FunA.FunB(); //    FunB name = 'Sam'
console.log(name1);
console.log(name2);
```

```
//FunA = exports, exports
var {FunA, FunB} = require('./b.js');
var name1 = FunA(); //    FunA name = 'Tom'
var name2 = FunB(); //    FunB name = 'Sam'
console.log(name1);
console.log(name2);
```

# npm scripts

## npm

npm    package.json    scripts    package.json    scripts    package.json

npm    npm run

- npm run
- &    npm run script1.js & npm run script2.js
- &&    npm run script1.js && npm run script2.js
- npm start    npm run start
- npm stop    npm run stop
- npm test    npm run test
- npm restart    npm run stop && npm run restart && npm run start

## forever

## forever

forever    nodejs    App    forever    forever    node    monitor    r

# forever

- `forever npm install -g forever`
- `forever` `forever -h`

# forever

## actions

```
- start:
- stop:
- stopall:    forever
- restart:
- restartall:  forever
- list:    forever
- config:
- set <key> <val>:
- clear <key>:
- logs:    forever
- logs <script|index>:
- columns add <col>:    forever list
- columns rm <col>:    forever list
- columns set<cols>:    forever list
- cleanlogs:    forever
```

# forever

- `forever start app.js`
- `forever stop app.js`

## options

```
- -m MAX:
- -l LOGFILE:    LOGFILE
- -o OUTFILE:    OUTFILE
- -e ERRFILE:    ERRFILE
- -p PATH:
```

```
- -c COMMAND:      node
- -a, -append:
- -f, -fifo:
- -n, -number:
- -pidFile: pid
- -sourceDir:
- -minUptime:  spinn  (ms)
- -spinSleepTime:  spin
- -colors:
- -plain: -no-colors
- -d, -debug: debug
- -v, -verbose:
- -s, -silent:
- -w, -watch:
- -watchDirectory:
- -watchIgnore:
- -h, -help:
```

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