ES MODULES

What? More?

ES6 MODULES

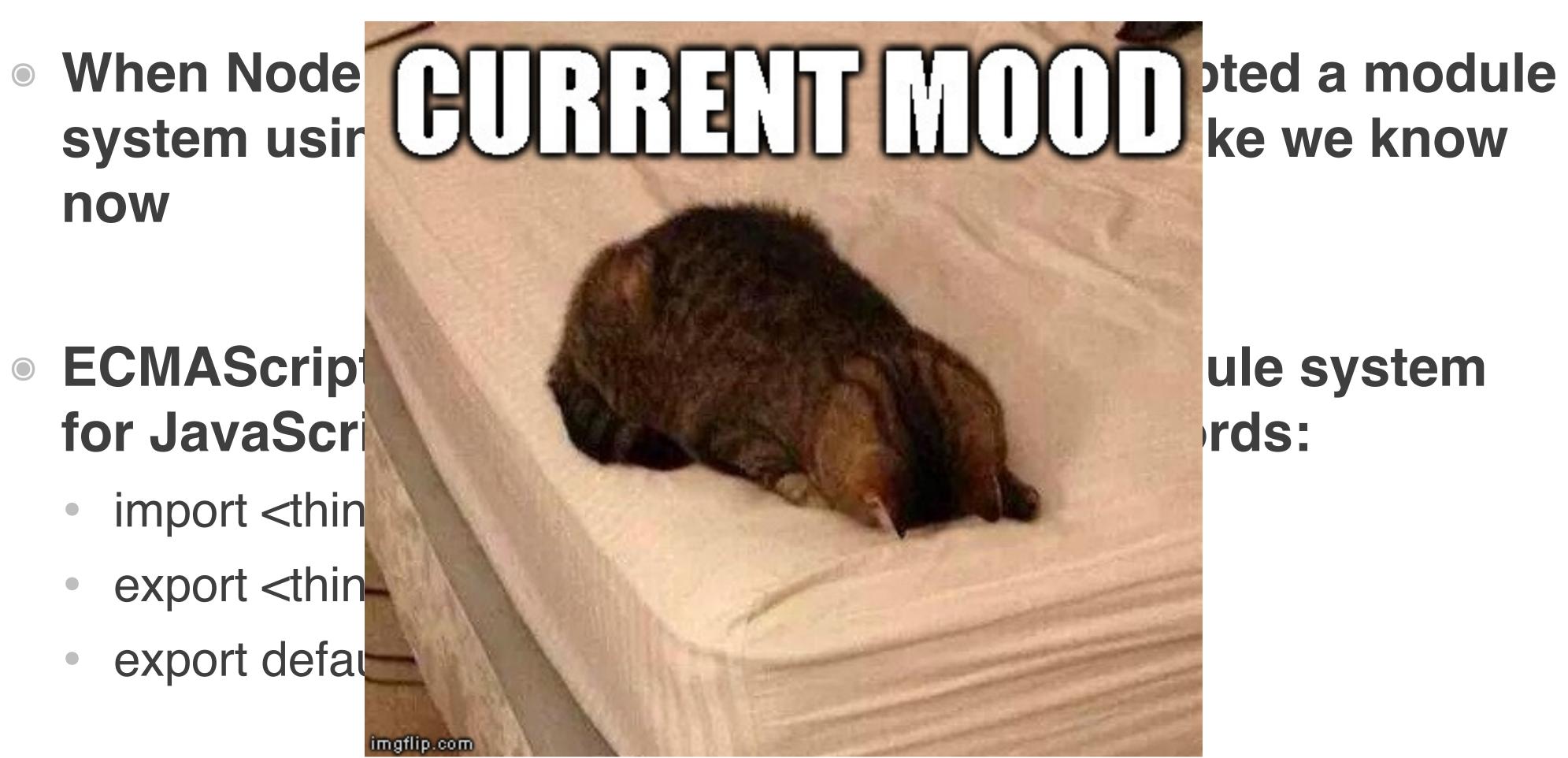
- When Node.js was introduced (2009), it adopted a module system using require and module.exports, like we know now (influenced by CommonJS spec)
- ECMAScript 6 (2015) approved a native module system for JavaScript using a different set of keywords:
 - import <thing> from '<file>'
 - export <thing>
 - export default <thing>

ES6 MODULES

now

• ECMAScript for JavaScri

- import <thin
- export <thin
- export defau

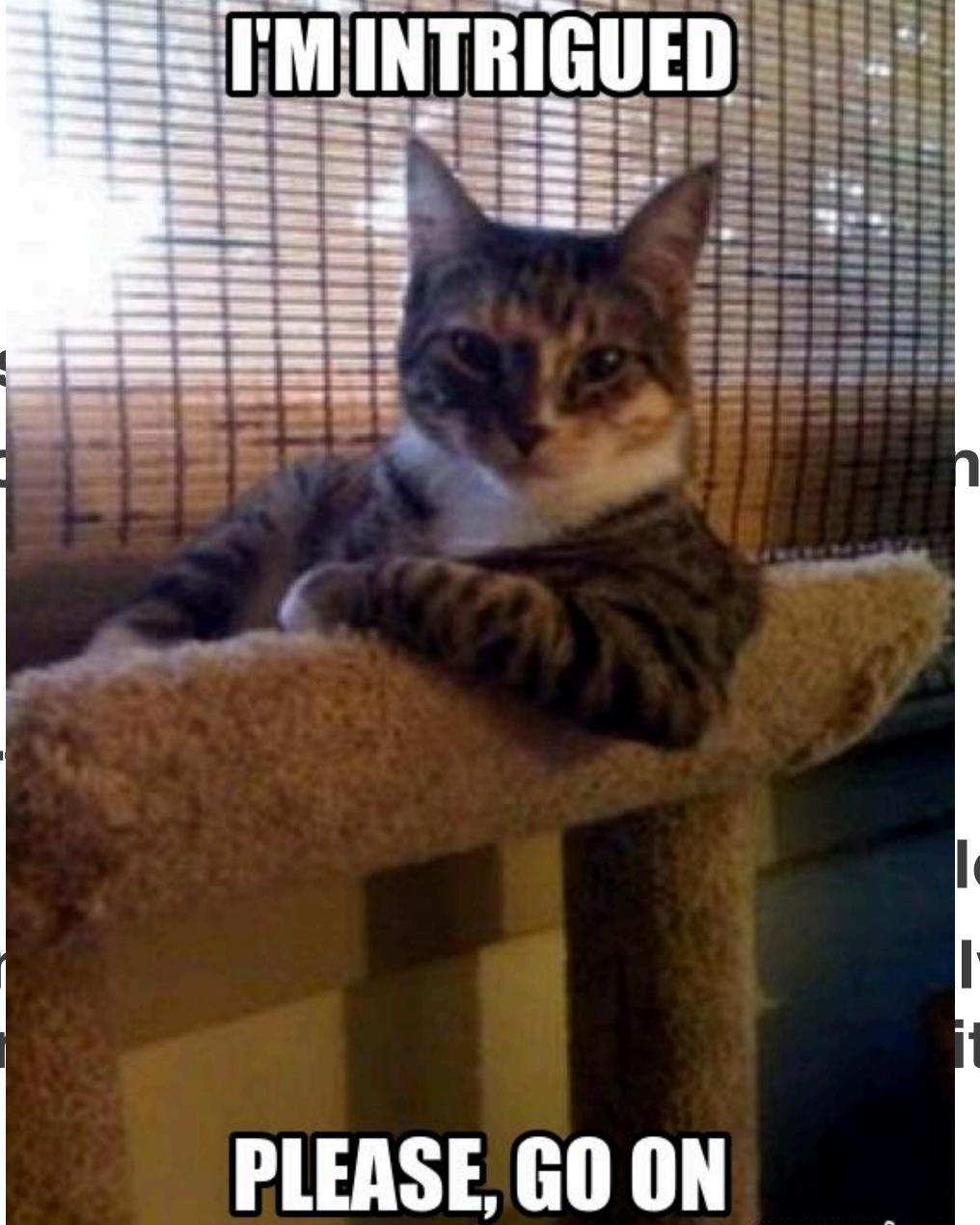


ule system rds:

RATIONALE

- The Node.js style modules:
 - only support synchronous module loading
 - are dynamic
- Import/export were designed:
 - to support both sync and async module loading
 - are not dynamic, which allows static analysis (i.e. tools can examine your code without running it)

REACT.JS INTRODUCTION



- The Node.js
 - only suppq
 - are dynam
- Import/expor
 - to support
 - are not dyr can examin

loading lysis (i.e. tools it)

memecrunch.com

a.js

a.js

const foo = () => {/* etc */}
export default foo

b.js

import foo from './a'

a.js

```
b.js
```

```
const foo = () => {/* etc */}
const bar = 'bar'

module.exports = {
  foo: foo,
  bar: bar
}
```

```
const {foo, bar} = require('./a.js')
```

```
a.js

const foo = () => {/* etc */}
const bar = 'bar'

module.exports = {
  foo: foo,
  bar: bar
}
```

```
b.js

const {foo, bar} = require('./a.js')
```

```
export const foo = () => {/* etc */}
export const bar = 'bar'
```

import {foo, bar} from './a'

```
a.js
  const foo =
  const bar =
  module.expor
    foo: foo,
    bar: bar
export const f
              ...Interesting
```

b.js quire('./a.js')

from './a'

export const b

FUNNY PIGTURES COM

CAN I USE IMPORT/EXPORT?

- Import/Export has support in the latest versions of some browsers
 - Not quite safe to depend on it without a build tool like webpack
- Node.js does support import/export natively yet

WHAT SHOULD I USE?

 Browser-side JavaScript: use import/export and use webpack to compile your code

Node: continue to use require and module.exports