

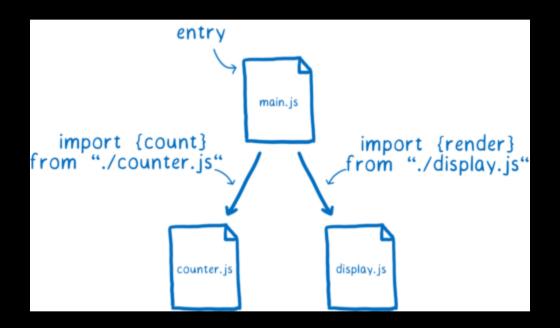






Un **Módulo** es un pedazo de código que cumple una tarea específica y que indica sobre qué piezas de código depende (*dependencias*).





Dependencias



Patrón de módulos IIFE



CommonJS

```
// WeekDays.js

var names = ["Domingo", "Lunes", "Martes", "Miercoles",

Jueves", "Viernes", "Sabado"];

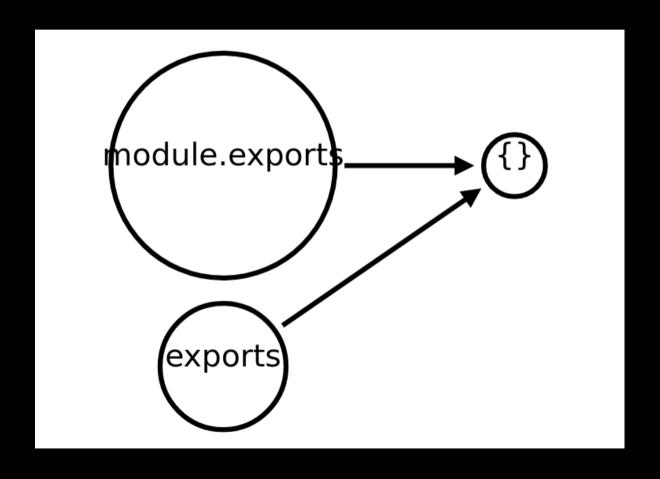
exports.name = function name (number) { return names[number]; };

exports.number = function number(name) { return names.indexOf(name); };
```

```
1 // index.js
2
3 var weekDays = require('./WeekDays.js');
4
5 console.log(weekDays.name(weekDays.number("Domingo")));
```



Inicialmente





module.exports

```
1 // module1.js
2
3 module.exports.a = function() {
4     console.log("a");
5 }
6
7 module.exports.b = function() {
8     console.log("b");
9 }
```

```
1 // module2.js
2
3 var example = require('./module1.js');
4
5 example.a(); // "a"
6
7 example.b(); // "b"
```



module.exports

```
1 // module1.js
2
3 module.exports.a = function() {
4     console.log("a");
5 }
6
7 module.exports.b = function() {
8     console.log("b");
9 }
10
11 module.exports = function extra() {
12     console.log("Extra function");
13 }
```

```
// module2.js
var example = require('./module1.js');

example.a(); // TypeError: example.a is not a function

example.b(); // TypeError: example.a is not a function

example.extra(); // TypeError: prueba.extra is not a function

example(); // "Extra function"
```



exports

```
1 // module1.js
2
3 exports.a = function() {
4    console.log("a");
5 }
6 exports.b = function() {
7    console.log("b");
8 }
```

```
1 // module2.js
2
3 var example = require('./module1.js');
4
5 example.a(); // "a"
6
7 example.b(); // "b"
```



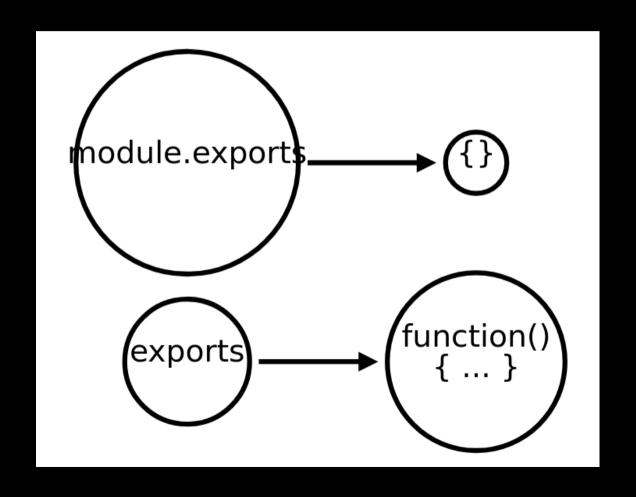
exports

```
1 // module1.js
2
3 exports.a = function() {
4    console.log("a");
5 }
6 exports.b = function() {
7    console.log("b");
8 }
9
10 exports = function extra() {
11    console.log('Extra function');
12 }
```

```
1 // module2.js
2
3 var example = require('./module1.js');
4
5 example.a(); // "a"
6
7 example.b(); // "b"
8
9 example.extra() // TypeError: example.extra is not a function
10
11 example(); // TypeError: example is not a function
```



Si "pisamos" la referencia del exports...





ES6

```
1 // index.js
2
3 import { number, name } from './WeekDays.js';
4
5 console.log(name(number("Domingo")));
```

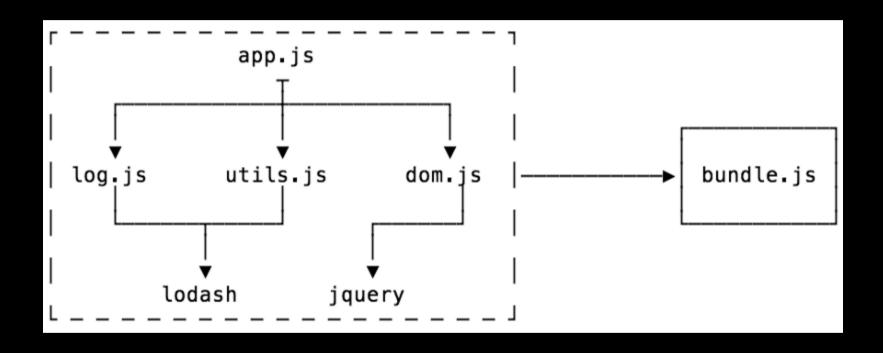


Bundlers

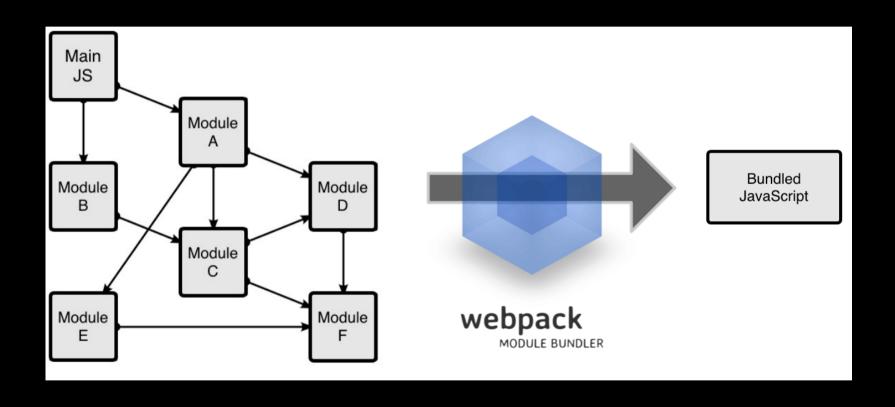
```
<html>
    <html>
        <head>My Webpage</head>
        <body>
            <script src="script1.js"></script>
                <script src="script2.js"></script>
                <script src="script3.js"></script>
                <script src="script4.js"></script>
                </body>
        </html>
```



Bundlers









```
1 npm init
2
3 npm install --save-dev webpack webpack-cli
4
5 // package.json
6
7 "scripts": {
8    "start": "node server.js",
9    "build": "webpack"
10 }
11
12 // crear archivo webpack.config.js`
```





```
3 Hash: 43fddf2175fdf6f7923f
4 Version: webpack 2.2.1
5 Time: 72ms
              Size Chunks
                                      Chunk Names
     Asset
 bundle.js 3.1 kB
                           [emitted]
                         0
                                      main
     [0] ./browser/app.js 586 bytes {0} [built]
```



Incluyendo el script en el HTML