

webpack.js.org

## Who am I?

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- github.com/Couto

BACKA"











## ServerJS

## ServerJS ——— CommonJS

**CommonJS** is a project with the goal of specifying an ecosystem for JavaScript outside the browser...

"Standardizing" before you have implementation is naive, in the most literal sense of showing a lack of experience, wisdom, or judgement.

Isaac Z. Schlueter, the author of npm, the package manager for Node.js,

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1	contact & info: ttp://eric.daspet.name/, @edasfr or gwebperf_fr authors of js loaders and webperf xperts are more than welcome to equest write access to the grid.																		
		LABjs	HeadJS	ControlJS	RequireJS	Load.js	YepNope.js	\$script.js	LazyLoad	curl.js	JsDefer (w/o Jquery)	jquery.defer.js	Bootstrap	PINF JS Loader	BravoJS	NBL.js	JSLoad	jQI	JSL
2	worksheet)	http://labjs.com/	http://headjs.com/	http://stevesouders.	http://requirejs.org/	https://github.com/chr	is http://yepnopejs.co	r http://www.dustindia	https://github.com/rg	https://github.com/u	https://github.com/Bori	s https://github.com/l	https://bitbucket.org	https://github.com/p	http://code.google.c	cc http://berklee.github	http://code.google.e	x https://github.com/	http://www.andresvidal.com
3	This comparaison is not trained and was initiated by the crowd. Most of this data may be wrong or outdated. Please use it as a start for your research, not as an end.	labjs	headjs																
4	author(s)	Kyle Simpson	Tero Piirainen	Steve Souders		Chris O'Hara	Alex Sexton & Ralph Holzmann	Dustin Diaz	Ryan Grove	John Hann @unscriptable	Boris Moore	Boris Moore	Scott Koon	Christoph Dorn	Wes Garland	Berklee	Eric Nguyen	Cédric Morin	Andres Vidal
5	lize minified	4.7 KB	6.3 KB	3.6 KB (w. closure adv.)	13 KB (+1 KB order plugin)	2 KB	3.4 KB	1.4 KB	1.6 KB	4.5KB to 6.4KB	4.7 KB	2.6 KB	1.3 KB	22 KB	10.7 KB	971 B	9.8 KB	1.5 KB	2.1 KB
6	ize minified and gziped	2.2 KB	1.9 KB	1.5 KB	5.3 KB (+650B order plugin)	1 KB	1.6 KB	643 B	904 B	2.2KB to 2.9KB	2.5 KB	1.6 KB	699 B	6.2 KB	3.6 KB	593 B		718 B	855 B
7	icense	MIT	MIT	Apache 2.0	BSD or MIT	MIT	WTFPL	MIT	MIT	MIT			Apache 2.0	MIT	MIT	MIT	LGPL		MIT and GNU
	oad JS files without blocking	Y	Y (tested)	Y														Y	Y
	oad independent JS files/groups in arallel	Y (tested)	Y (tested)	Y														Y	Y
40	bility to execute a callback after																		
	pading a script asynchronously	Y (tested)	Y (tested)	Y	Υ	Y	Y	Y	Y								Y		Y
	execute independent JS files independently from the call order																		
	chrome, safari, ie)	Y (tested)	Y (tested)	Y		?	N (by design)	?	N										Y
	xecute independent JS files																		
	ndependently from the call order firefox, opera)	N (tested)	N (tested)			2	N /hy design)	?	N										v
	void loading a JS file twice if the	N (tested)	N (tested)	-		,	N (by design)	,											
13	ITTP cache is missing (same																		
	omain) (chrome, safari, ie)	Y (tested)	N (tested)	N		?	N	N?	Y										Y
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	void loading a JS file twice if the ITTP cache is missing (cross																		
15	omain) (firefox, opera)	Y (tested)	Y (tested)	N		?	N	N?	Y										Y
	ble to avoid executing a JS file twice					_													
	called twice	Y (tested)	Y (tested)	Y	?	?	Y	?	N	Y	, Y		Y	Y		Y	Υ		Υ
	wice	Y (tested)	N (by design)	N	?	?	Υ	?	Y				N ?	N		N?	N?		Cached
	llow to define dependencies	***			`				THE REAL PROPERTY.										
	executed before the wanted script) oad dependencies in parallel	Y (tested) Y (tested)	Y (tested) Y (tested)	, i				Y ?	Partially	,	· ·								v v
20	oad JS files outside the "same																		
	omain" policy	Y (tested)	Y (tested)	Y		?	Y	?	Y			Y	Y						Y
	eature detection and no user agent inifing					2	Y	2	N			N/A	V						N
22	uture proof with async=false		Y (tested)	N/A		N	N/A	N	Y		N	N							Planned
00	bility to define shortcuts or ids (not				100														
	all urls) to JS files / groups bility to pre-define dependencies in		Y (tested)	N						Υ	· ·								N
	ne <head> or somewhere central</head>																		N
	compliant with the CommonJS																		
	Modules spec supports plugins/extensions		Planned	N		?	N/A	In Progress	N	· ·	N N	N	N			N	N		N
07	et use classic <script> external tags</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>- THE REAL PROPERTY OF THE PERTY OF THE PERT</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2/</td><td>controlJS style)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Y</td><td></td><td></td></tr><tr><td>- 00</td><td>atches page's document.readyState</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table></script>																		

```
1. common.js + (/private/tmp) - VIM (vim)
  10 // Declare our dependencies-
   9 var leftPad = require('left-pad'); -
   8 var findMoney = require('./money-finder.js');¬
   5 function paddedMoney(n) {¬
       return leftPad(findMoney(n), 2, '0');¬
     module.exports = paddedMoney;
-- INSERT --
```

```
1. amd.js + (/private/tmp) - VIM (vim)
  13 // Declare our dependencies-
  12 define([¬
     'left-pad',¬
      './money-finder.js'¬
  9 ], function (leftPad, findMoney) {¬
      // Do whatever the module should do-
   6 function paddedMoney(n) {¬
       return leftPad(findMondey(n), 2, '0');¬
       return paddedMoney;¬
    });=
14
   INSERT --
```

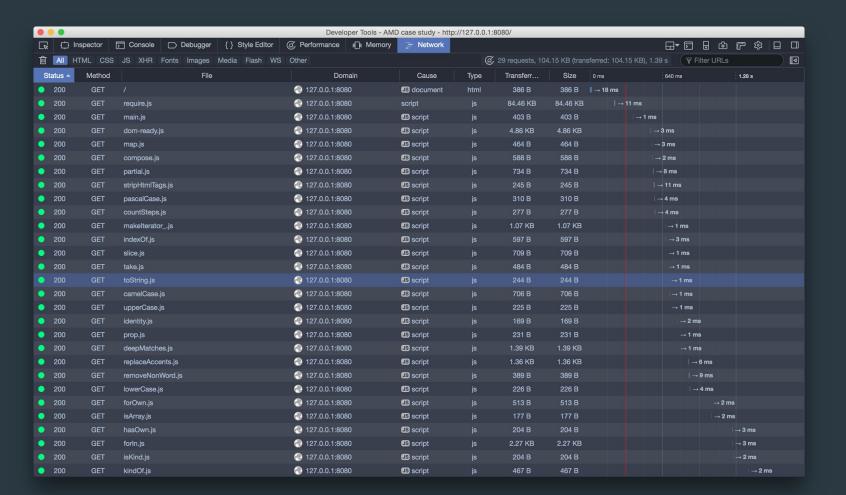




The (former) king of configuration files.

```
1. index.html (~/Development/unpack-w...tudy-cases/amd-bad-timeline) - VIM (zsh)
11 <html lang="en">¬
     <head>¬
       <meta charset="utf-8">¬
       <meta http-equiv="x-ua-compatible" content="ie=edge">¬
       <title>AMD case study</title>¬
       <meta name="description" content="">¬
       <meta name="viewport" content="width=device-width, initial-scale=1">¬
 4 </head>¬
 3 <body>¬
     <script data-main="main.js" src="node modules/requirejs/require.js"></script>
 1 </body>¬
  /html==
```

```
1. main.js + (~/Development/un...ases/amd-bad-timeline) - VIM (zsh)
2 require.config({¬
   paths: {¬
      mout: 'node modules/mout/src',=
      backbone: 'node modules/backbone/backbone.js',¬
      underscore: 'node modules/underscore/underscore.js',¬
      domReady: 'node modules/dom-ready/dom-ready'-
        deps: ['underscore', 'jquery'],¬
        exports: 'Backbone¬
      'underscore': {¬
        exports: ' '¬
     'jquery.colorize': ['jquery'],¬
     'jquery.scroll': ['jquery'],-
      'backbone.layoutmanager': ['backbone']-
    deps: [¬
    'domReady',-
      'Backbone'-
    callback: function (domReady, Backbone) {¬
      domReady(function(){¬
```

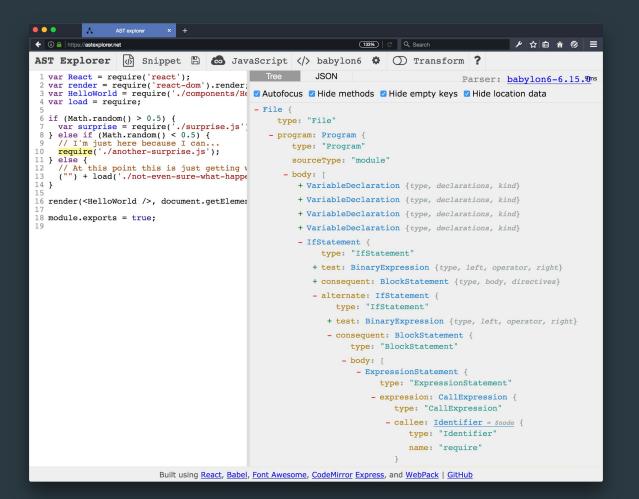


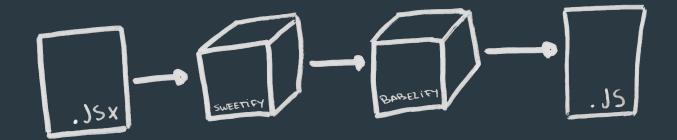




The king of the ify

```
1. main.js + (~/Development/un...es/browserify-example) - VIM (vim) 🔔
17 var React = require('react');¬
16 var render = require('react-dom').render; -
15 var HelloWorld = require('./components/HelloWorld.jsx');
14 var load = require;
12 if (Math.random() > 0.5) {¬
var surprise = require('./surprise.js');
10 } else if (Math.random() < 0.5) {-
     require('./another-surprise.js');
    ("") + load('./not-even-sure-what-happens.js');¬
 2 render(<HelloWorld />, document.getElementById('app')); -
   module.exports = true;¬
```





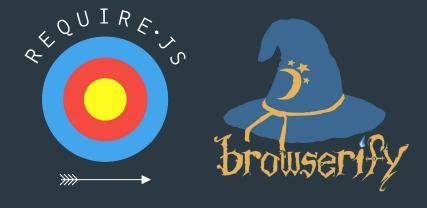
2009 2010

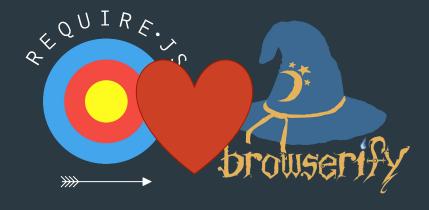
Common

JS 2.0 (node)s stuff that no one cares...)

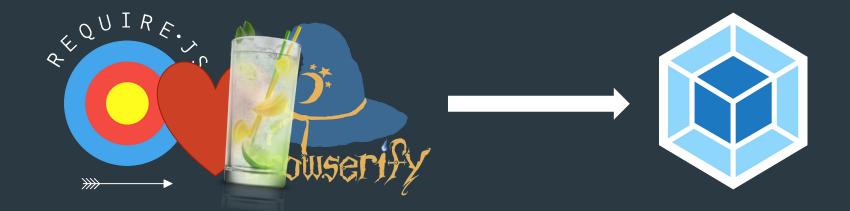
2014

Harmony ara ESE ara ESZONS











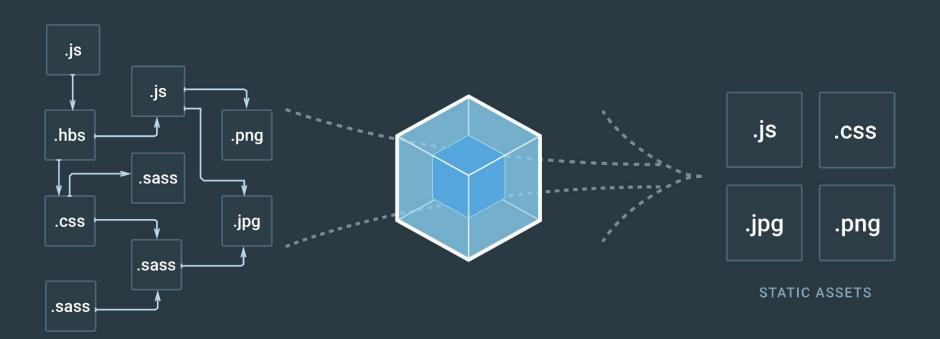


The (current) king of configuration files.



The (current) king of configuration files.

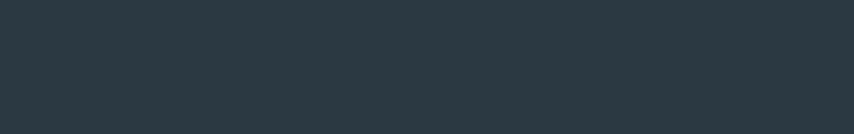
...but has enough benefits to make it worth it



**MODULES WITH DEPENDENCIES** 



- CommonJS, AMD and Harmony modules
- Static assets (e.g.: images) are treated as modules
- Loader & Bundler
- Web Dev Server
- Code Splitting aka Loading on Demand/Async loading
- Tree Shaking
- Hot Module Replacement



La La Demo

