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browserify-shim / lib / resolve-shims.js / <> Jump to ▾



thlorenz removing find-parent-dir legacy code and dep

History

1 contributor

213 lines (175 sloc) | 7.5 KB

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1  'use strict';
2
3  var path          = require('path')
4    , fs            = require('fs')
5    , util          = require('util')
6    , parseInlineShims = require('./parse-inline-shims')
7    , mothership     = require('mothership')
8    , format        = require('util').format
9
10 var shimsCache = {}
11    , shimsByPath = {};
12
13 function inspect(obj, depth) {
14   return util.inspect(obj, false, depth || 5, true);
15 }
16
17 function isPath(s) {
18   return (/^[.]{0,2}[/\\]/).test(s);
19 }
20
21 function validate(key, config, dir) {
22   var msg
23     , details = 'When evaluating shim "' + key + '": ' + inspect(config) + '\ninside ' + dir + '\n
24
25   if (!config.hasOwnProperty('exports')) {
26     msg = 'browserify-shim needs at least a path and exports to do its job, you are missing the ex
27         '\nIf this module has no exports, specify exports as null.'
28     throw new Error(details + msg);
29   }

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30 }
31
32 function updateCache(packageDir, pack, resolvedShims, exposeGlobals) {
33     shimsCache[packageDir] = { pack: pack, shims: resolvedShims, exposeGlobals: exposeGlobals };
34     Object.keys(resolvedShims).forEach(function(fullPath) {
35         var shim = resolvedShims[fullPath];
36         validate(fullPath, shim, packageDir);
37         shimsByPath[fullPath] = shim;
38     });
39 }
40
41 function resolveDependsRelativeTo(dir, browser, depends, packDeps, messages) {
42     var resolved;
43
44     if (!depends) return undefined;
45
46     return Object.keys(depends).reduce(function (acc, k) {
47         if (browser[k]){
48             acc[k] = depends[k];
49             messages.push(format('Found depends "%s" exposed in browser field', k));
50         } else if (!isPath(k)) {
51             acc[k] = depends[k];
52             if (packDeps[k]) {
53                 messages.push(format('Found depends "%s" as an installed dependency of the package', k));
54             } else {
55                 messages.push(format('WARNING, depends "%s" is not a path, nor is it exposed in the browse
56             });
57         } else {
58             // otherwise resolve the path
59             resolved = path.resolve(dir, k);
60             acc[resolved] = depends[k];
61             messages.push(format('Depends "%s" was resolved to be at [%s]', k, resolved));
62         }
63
64         return acc;
65     }, {}))
66 }
67
68 function resolvePaths (packageDir, shimFileDir, browser, shims, packDeps, messages) {
69     return Object.keys(shims)
70         .reduce(function (acc, relPath) {
71             var shim = shims[relPath];
72             var exposed = browser[relPath];
73             var shimPath;
74
75             if (exposed) {
76                 // lib exposed under different name/path in package.json's browser field
77                 // and it is referred to by this alias in the shims (either external or in package.json)
78                 // i.e.: 'non-cjs': { ... } -> browser: { 'non-cjs': './vendor/non-cjs.js }

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79     shimPath = path.resolve(packageDir, exposed);
80     messages.push(format('Found "%s" in browser field referencing "%s" and resolved it to "%s"
81 } else if (shimFileDir) {
82     // specified via relative path to shim file inside shim file
83     // i.e. './vendor/non-cjs': { exports: .. }
84     shimPath = path.resolve(shimFileDir, relPath);
85     messages.push(format('Resolved "%s" found in shim file to "%s"', relPath, shimPath));
86 } else {
87     // specified via relative path in package.json browserify-shim config
88     // i.e. 'browserify-shim': { './vendor/non-cjs': 'noncjs' }
89     shimPath = path.resolve(packageDir, relPath);
90     messages.push(format('Resolved "%s" found in package.json to "%s"', relPath, shimPath));
91 }
92 var depends = resolveDependsRelativeTo(shimFileDir || packageDir, browser, shim.depends, pac
93
94     acc[shimPath] = { exports: shim.exports, depends: depends };
95     return acc;
96 }, {}));
97 }
98
99 function mapifyExposeGlobals(exposeGlobals) {
100     return Object.keys(exposeGlobals)
101         .reduce(function (acc, k) {
102
103             var val = exposeGlobals[k];
104             var parts = val.split(':');
105
106             if (parts.length < 2 || !parts[1].length) {
107                 throw new Error(
108                     'Expose Globals need to have the format "global:expression.\n"'
109                     + inspect({ key: k, value: val }) + 'does not.'
110                 );
111             }
112
113             // this also handle unlikely cases of 'global:_.someFunc(':')' with a `:` in the actual glob
114             parts.shift();
115             acc[k] = parts.join(':');
116
117             return acc;
118         }, {});
119 }
120
121 function separateExposeGlobals(shims) {
122     var onlyShims = {}
123     , exposeGlobals = {};
124
125     Object.keys(shims).forEach(function (k) {
126         var val = shims[k]
127         , exp = val && val.exports;

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128
129     if (exp && /^global\:.\/.test(exp)) {
130         exposeGlobals[k] = exp;
131     } else {
132         onlyShims[k] = val;
133     }
134 });
135
136     return { shims: onlyShims, exposeGlobals: mapifyExposeGlobals(exposeGlobals) };
137 }
138
139 function resolveFromShimFile(packageDir, pack, shimField, messages) {
140     var shimFile = path.join(packageDir, shimField)
141         , shimFileDir = path.dirname(shimFile);
142
143     var allShims = require(shimFile);
144     var separated = separateExposeGlobals(allShims);
145
146     var resolvedShims = resolvePaths(packageDir, shimFileDir, pack.browser || {}, separated.shims, p
147     return { shims: resolvedShims, exposeGlobals: separated.exposeGlobals };
148 }
149
150 function resolveInlineShims(packageDir, pack, shimField, messages) {
151     var allShims = parseInlineShims(shimField);
152     var separated = separateExposeGlobals(allShims);
153
154     var resolvedShims = resolvePaths(packageDir, null, pack.browser || {}, separated.shims, pack.dep
155     return { shims: resolvedShims, exposeGlobals: separated.exposeGlobals };
156 }
157
158 var resolve = module.exports = function resolveShims (file, messages, cb) {
159     // find the package.json that defines browserify-shim config for this file
160     mothership(file, function (pack) { return !! pack['browserify-shim'] }, function (err, res) {
161         if (err) return cb(err);
162
163         if (!res || !res.pack) return cb(new Error('Unable to find a browserify-shim config section in
164
165         var pack          = res.pack;
166         var packFile      = res.path;
167         var packageDir    = path.dirname(packFile);
168
169         // we cached this before which means it was also grouped by file
170         var cached = shimsCache[packageDir];
171         // if it was cached, that means any package fixes were applied as well
172         if (cached) {
173             return cb(null, {
174                 package_json      : packFile
175                 , packageDir      : packageDir
176                 , resolvedPreviously : true

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177     , shim                : shimsByPath[file]
178     , exposeGlobals       : cached.exposeGlobals
179     , browser             : pack.browser
180     , 'browserify-shim'   : pack['browserify-shim']
181     , dependencies        : pack.dependencies
182   });
183 }
184
185 try {
186   pack = require(packFile);
187
188   var shimField = pack['browserify-shim'];
189   if (!shimField) return cb(null, { package_json: packFile, shim: undefined });
190
191   var resolved = typeof shimField === 'string'
192     ? resolveFromShimFile(packageDir, pack, shimField, messages)
193     : resolveInlineShims(packageDir, pack, shimField, messages);
194
195   messages.push({ resolved: resolved.shims });
196   updateCache(packageDir, pack, resolved.shims, resolved.exposeGlobals);
197
198   cb(null, {
199     package_json      : packFile
200     , packageDir      : packageDir
201     , shim            : shimsByPath[file]
202     , exposeGlobals    : resolved.exposeGlobals
203     , browser         : pack.browser
204     , 'browserify-shim' : pack['browserify-shim']
205     , dependencies     : pack.dependencies
206   });
207
208 } catch (err) {
209   console.trace();
210   return cb(err);
211 }
212 });
213 }
```