Tencent腾讯

webpack支撑大规模应用开 发最佳实践

个人简介

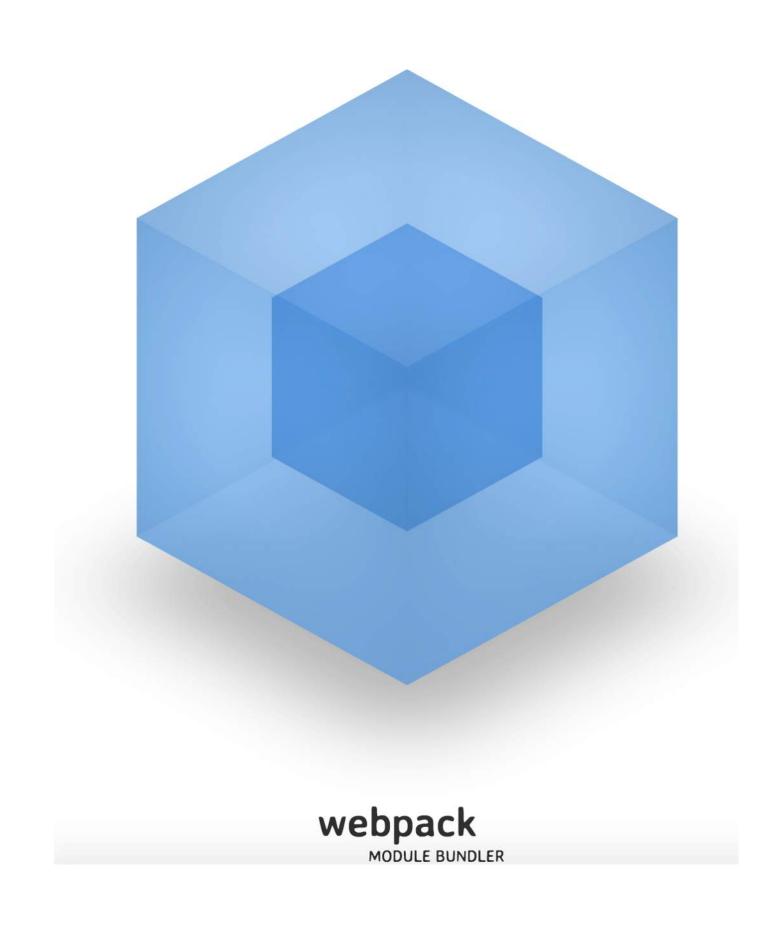
• 个人信息

- 李成熙, AlloyTeam
- 2014年底加入腾讯
- 群活动、家校群、互动直播
- Github: https://github.com/lcxfs1991

• 工作方向

- 前端工程化、自动化
- 性能优化
- Hybrid, React Native

From webpack1 to webpack2

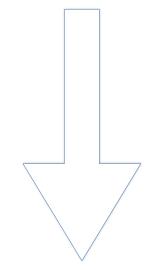


webpack.github.io

From webpack1 to webpack2



webpack.io



webpack.js.org

Gulp vs Grunt vs Browserify vs webpack

	Gulp	Grunt	Browserify	webpack
Github Stars	23668	11105	10350	19684
Weekly Download	65W+	46W+	50W+	66W+

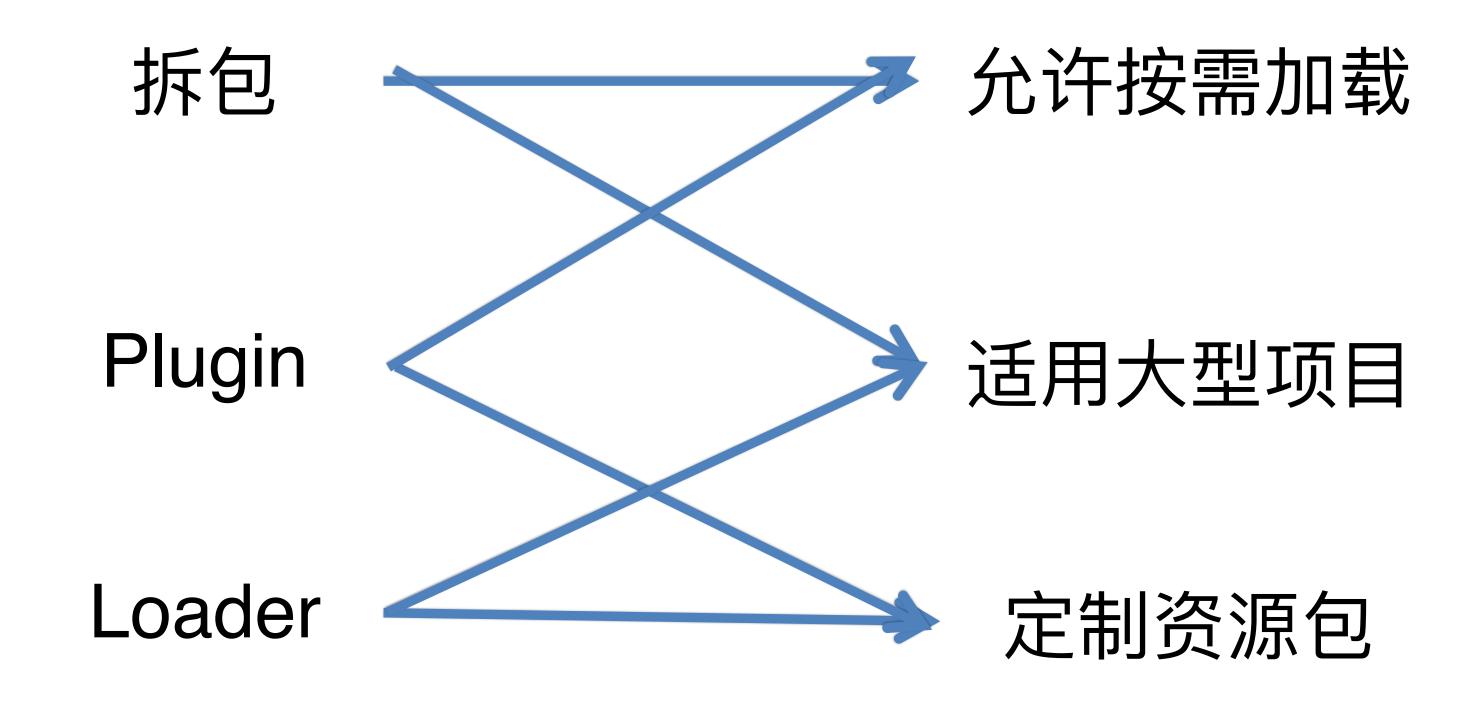
为什么要用webpack

why webpack

为什么要用webpack

- 1. 与react一类模块化开发的框架搭配着用比较好
- 2. 属于配置型的构建工具,比较用容易上手,160
- 行代码可大致实现gulp300多行才能实现的功能

为什么要用webpack



webpack核心概念

module & chunk & positioning

Webpack核心概念 -- Module

- Module 模块
- 1. js
- 2. css, images, fonts...

```
函数写法
var mod1 = function() {
};
// 对象写法
var \mod 2 = \{
    init: function() {
};
// 立即执行函数
var \mod 3 = (function(win)) 
})(window);
```

Webpack核心概念 -- Chunk

- Chunk 块
- 1. Many small modules combined
- 2. Entry Chunk, Output Chunk, Common Chunk

Webpack核心概念 -- 定位

- 模块加载器(module loader)
- 1. requirejs
- 2. seajs

特点:

- 1. 浏览器中加载入口及依赖
- 2. 执行入口及依赖代码

Webpack核心概念 -- 定位

- 模块打包工具(module bundler)
 - 1. browserify
 - 2. webpack

特点:

- 1. 浏览器中加载入口及依赖
- 2. 执行入口及依赖代码
- 3. 分析及合成模块系统
- 4. 生成文件束 (bundle/chunk)

不仅仅是bundler

more than a module bundler

现在被当成构建工具使用

Stronger as the community florish

简略回顾Webpack配置

```
var devConfig = {
   entry:
       common: ['jquery', 'bootstrap', 'net', 'spin'],
        index: ["webpack-dev-server/client?http://localhost:9000",
               "webpack/hot/only-dev-server",
               path.join(config.path.src, "/page/index/main.js")],
   output: -
       publicPath: config.defaultPath,
       path: path.join(config.path.dist),
       filename: "js/[name]" + config.hash + ".js"
   module: -
       noParse: [path.join(nodeModulesPath, '/react/dist/react.min')],
       loaders:
               loaders: ['react-hot', 'babel?presets[]=es2015&presets[]=react'],
               exclude: /node_modules/,
               test: /\.css$/,
               loader: ExtractTextPlugin.extract("style-loader", "css-loader"),
               include: path.resolve(config.path.src)
   resolve: {
       extensions: ["", ".js", ".jsx", ".es6", "css", "scss", "png", "jpg", "jpeg"],
       alias: {
           'react-dom': path.join(nodeModulesPath, '/react-dom/dist/react-dom'),
            'redux': path.join(nodeModulesPath, '/redux/dist/redux'),
   plugins:
        new webpack.HotModuleReplacementPlugin(), // 如果server.js好像需要开启?
       new webpack.optimize.OccurenceOrderPlugin(),
       new HtmlWebpackPlugin({
           inject: true,
           excludeChunks: ['test'],
           template: 'src/index.html',
           favicon: 'src/img/favicon.ico'
       new ExtractTextPlugin("./css/[name]" + config.hash + ".css"),
        new webpack.NoErrorsPlugin()
```

1. entry: 源文件

2. output: 生成文件

3. loader: 编译文件

4. plugins:插件,比loader更强

大,能使用更多webpack的api

5. resolve: 文件路径的指向

webpack基础构建

a basic building tool

Webpack基础构建

- 1. 架构选型
- 2. 编译资源 (js, css, image等)
- 3. 生成文件

Webpack基础构建 -- 架构选型

Gulp为核心 Webpack仅作为 js打包工具

Webpack为核心 Gulp为辅助 Script协助流程





Webpack基础构建 -- 架构选型

• 不建议使用webpack-stream, 一处修改, 全量更新

gulp.watch

增量更新 13秒

```
[18:09:45] Version: webpack 1.12.0
                            Size Chunks
                                                    Chunk Names
                    Asset
                                      15 [emitted]
                          121 kB
               js/user.js
                                                    user
       js/question_add.js
                          132 kB
                                       0 [emitted]
                                                    question_add
                                       2 [emitted]
            js/ask_add.js 137 kB
                                                   ask_add
         js/answer_add.js 133 kB
                                       3 [emitted] answer_add
       js/mentor_apply.js 142 kB
                                       4 [emitted] mentor_apply
        js/mentor_book.js 146 kB
                                       5 [emitted] mentor_book
             js/mentor.js 138 kB
                                       6 [emitted] mentor
         js/ask_detail.js 145 kB
                                       7 [emitted] ask_detail
                js/ask.js 135 kB
                                       8 [emitted] ask
           js/withdraw.js
                          126 kB
                                       9 [emitted] withdraw
  js/user_resetpassword.js 123 kB
                                      10 [emitted] user_resetpassword
       js/user_profile.js 125 kB
                                      11 [emitted] user_profile
                                      12 [emitted] user_pic
           js/user_pic.js 125 kB
           js/user_msg.js 120 kB
                                      13 [emitted] user_msg
        js/user_invite.js 123 kB
                                      14 [emitted] user_invite
              js/index.js 139 kB
                                       1 [emitted]
                                                   index
           js/relation.js
                          125 kB
                                      16 [emitted]
                                                   relation
                                      17 [emitted]
                          122 kB
            js/payment.js
                                                    payment
      js/mentor_student.js 127 kB
                                      18 [emitted] mentor_student
                                      19 [emitted] mentor_appoint_detail
js/mentor_appoint_detail.js 128 kB
      js/mentor_appoint.js 124 kB
                                      20 [emitted] mentor_appoint
        js/type_manage.js 123 kB
                                      21 [emitted] type_manage
      js/money_withdraw.js 122 kB
                                      22 [emitted]
                                                   money_withdraw
        js/mentor_pass.js 122 kB
                                      23 [emitted]
                                                    mentor_pass
       js/mentor_cancel.js 121 kB
                                      24 [emitted] mentor_cancel
     js/industry_manage.js 123 kB
                                      25 [emitted] industry_manage
                js/cms.js 117 kB
                                      26 [emitted] cms
                                      27 [emitted] forget
             js/forget.js 105 kB
             js/result.js 96.2 kB
                                      28 [emitted] result
             js/common.js 12.3 kB
                                      29 [emitted] common
[18:09:45] Finished 'webpack' after 13 s
```

Webpack基础构建-编译资源

- 将源文件转成浏览器能识别的
- 1. es6 = > es5
- 2. image => base64
- 3. sass/less => css
- 4. etc ...

Loader & Plugin

常用Loaders介绍

- 1. 处理样式,转成css,如:less-loader, sass-loader
- 2. 图片处理,如: url-loader, file-loader。两个都必须用上。否则超过大小限制的图片无法生成到目标文件夹中
- 3. 处理js,将es6或更高级的代码转成es5的代码。如:
- babel-loader, babel-preset-es2015, babel-preset-react, babel, babel-preset-loose
- 4. 读取html生成模板字符串,如html-loader
- 5. 将js模块暴露到全局,如: expose-loader
- 6. 将第三方库注入到模块中,如import-loader
- 7. List of loaders

常用Plugins介绍

- 1. 生成html文件及注入资源,HtmlWebpackPlugin
- 2. 将css成生文件,而非内联,ExtractTextPlugin
- 3. 代码丑化,UglifyJsPlugin,开发过程中不建议打开
- 4. List of Plugins

Webpack基础构建 - 生成文件

- 1. entry => 入口文件
- Single entry

```
const config = {
  entry: './path/to/my/entry/file.js'
};

module.exports = config;
```

Webpack基础构建 – 生成文件

- 1. entry => 入口文件
- Object Syntax

```
const config = {
 entry: {
   app './src/app.js'
   vendors: './src/vendors.js'
```

Webpack基础构建 - 生成文件

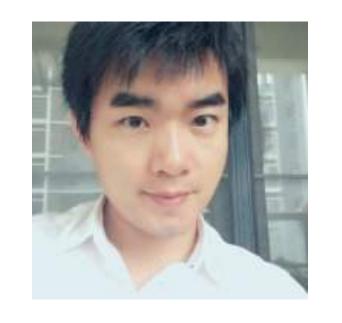
- 1. entry => 入口文件
- Object Syntax

```
const config = {
  entry: {
    app1: './src/app.js',
    app2: ['./src/a.js', 'src/b.js'],
    vendors: './src/vendors.js'
  }
};
```

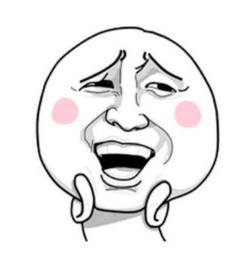
Webpack基础构建 – 生成文件

2. output => 输出文件路径配置等

```
output: {
    publicPath: "s1.url.cn",
    path: path.join("/pub/"),
    filename: "js/[name]-[chunkhash:6].js",
    chunkFilename: "js/chunk/[name]-[chunkhash:6].js",
},
```



老板: React挺好的,我们尝试用到项目中



我: 没问题



老板: 忘了说,项目有10个页面



找:。。。。。

全量 编译时间 26s

```
Version: webpack 1.13.2
Time: 26352ms
                    Asset
                                Size
                             19.4 kB
     ./css/spa7-f1177c.css
        js/spa9-615a20.js
                             1.18 MB
        js/spa7-615a20.js
                             1.18 MB
        js/spa6-615a20.js
                             1.18 MB
        js/spa5-615a20.js
                             1.18 MB
        js/spa4-615a20.js
                             1.18 MB
        js/spa3-615a20.js
                             1.18 MB
        js/spa2-615a20.js
                             1.18 MB
       js/spa10-615a20.js
                             1.18 MB
        js/spa1-615a20.js
                             1.18 MB
```

Webpack大规模应用开发

Big-scale app

思考: 哪些方法提高构建速度?

- 1. 将大型库外链
- 2. 将库预先编译
- 3. 减少构建搜索或编译路径
- 4. 缓存
- 5. 并行

实验机器



将大型库外链

• External 常用于引入外链作为library

```
<script type="text/javascript" src="//libs/react-e4c416.js"></script>
```

```
// 使用外链
externals: {
    'react': "React",
    'react-dom': "ReactDOM",
    'preact': 'preact',
},
```

将大型库外链

全量 编译的 26s

18s

Version: webpack 1.13.2 Time: 18090ms	
Asset	Size
./css/spa7-f1177c.css	19.4 kB
js/spa9-d295b3.js	462 kB
js/spa7-d295b3.js	462 kB
js/spa6-d295b3.js	462 kB
js/spa5-d295b3.js	462 kB
js/spa4-d295b3.js	461 kB
js/spa3-d295b3.js	461 kB
js/spa2-d295b3.js	461 kB
js/spa10-d295b3.js	461 kB
js/spa1-d295b3.js	461 kB

将库预先编译

DIIPlugin

动态连接库,

即事先将包打好,再引用

```
const webpack = require('webpack');
var config = require('./config'),
    configWebpack = config.webpack;
const vendors = [
     'react',
    'react-dom',
    'redux',
    'react-redux',
    'redux-thunk',
    'lodash.merge',
];
module_exports = {
    output: {
        path: configWebpack.path.src + '/libs/',
        filename: '[name].js',
        library: '[name]',
        libraryTarget: 'umd',
    },
    entry: {
        "lib": vendors,
    },
    plugins: [
        new webpack.DllPlugin({
            path: './tools/manifest.json',
            name: '[name]',
            context: __dirname,
        }),
    1,
```

将库预先编译

DIIReferencePlugin

```
new webpack.DllReferencePlugin({
          context: __dirname,
          manifest: require('./manifest.json'),
}),
```

noParse

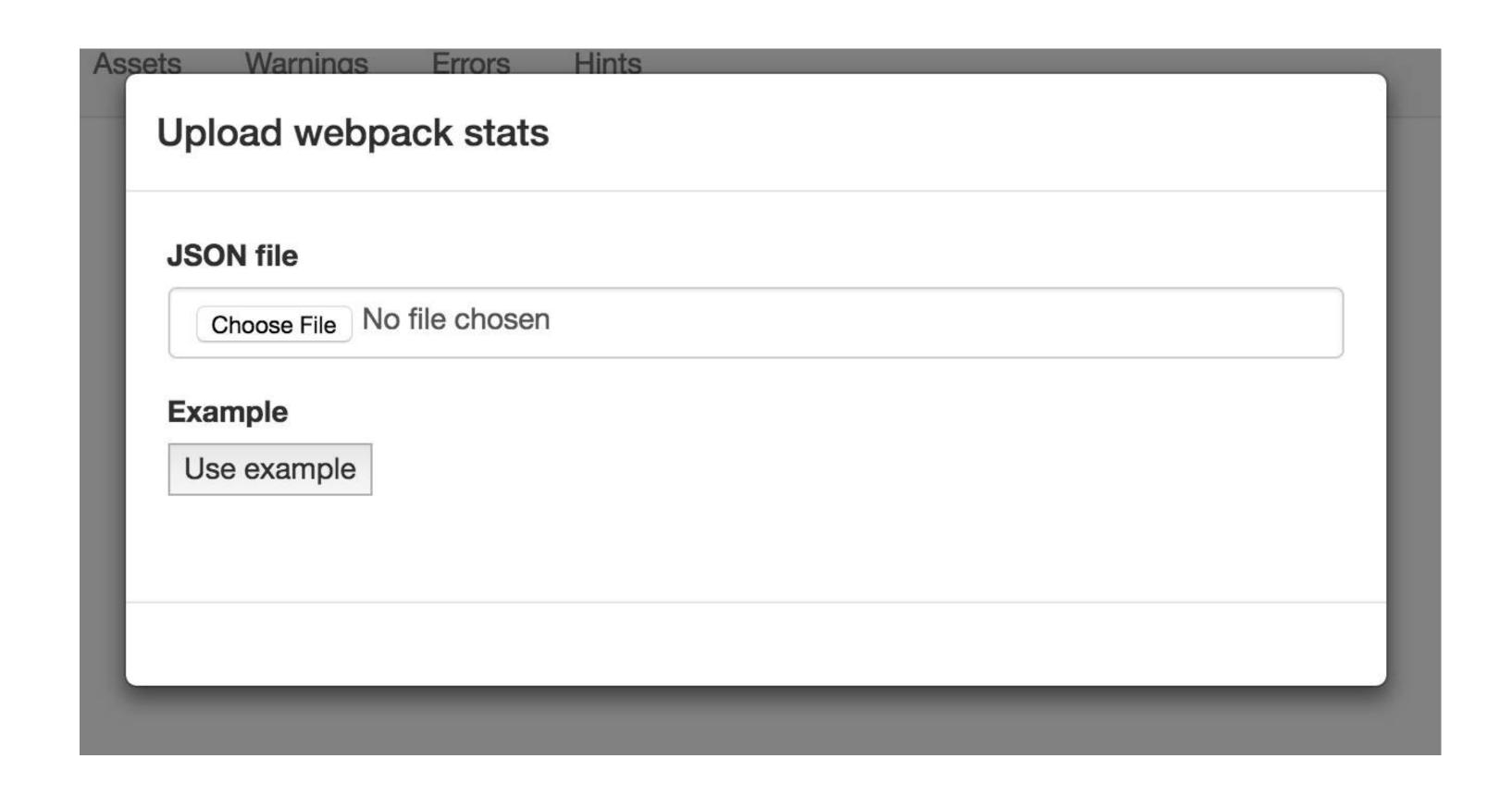
将部份库预先编译好为es5

```
noParse:
    /utils/,
    /spin/,
    /net/,
    /cgiPath/,
    /constants/,
```

PrefetchPlugin
 stats-webpack-plugin

```
new StatsPlugin('stats.json', {
      chunkModules: true,
})
```

PrefetchPlugin
 http://webpack.github.io/analyse/



PrefetchPlugin
 hints => long module build chains

```
new webpack.PrefetchPlugin('redux-devtools-log-monitor/lib/index.js'),
new webpack.PrefetchPlugin('redux-devtools-dock-monitor/lib/index.js'),
new webpack.PrefetchPlugin('core-js/library'),
new webpack.PrefetchPlugin('babel-runtime/core-js'),
```

启动时间 26s

16.8s

Version: webpack 1.13.2 Time: 16870ms	
Asset	Size
./css/spa7-4d7ef5.css	19.3 kB
js/spa9-45548a.js	332 kB
js/spa7-45548a.js	332 kB
js/spa6-45548a.js	332 kB
js/spa5-45548a.js	332 kB
js/spa4-45548a.js	332 kB
js/spa3-45548a.js	332 kB
js/spa2-45548a.js	332 kB
js/spa10-45548a.js	332 kB
js/spa1-45548a.js	332 kB

resolve.alias

```
alias: {
    // 使用压缩版本redux
    'redux': 'redux/dist/redux.min',
    'react-redux': 'react-redux/dist/react-redux',
    'react-router': 'react-router/umd/ReactRouter',
    'react-router-redux': 'react-router-redux/dist/ReactRouterRedux',
    'utils': path.join(configWebpack.path.src, '/js/common/utils'),
    'spin': path.join(configWebpack.path.src, '/js/common/spin'),
    'spinner': path.join(configWebpack.path.src, '/page/common/components/spinner/index.js'),
    'net': path.join(configWebpack.path.src, '/js/common/net'),
    'touch': path.join(configWebpack.path.src, '/page/common/components/touch/index.js'),
    'scroll':path.join(configWebpack.path.src, '/page/common/components/scroll/index.js'),
    'pure-render-decorator': path.join(configWebpack.path.src, '/js/common/pure-render-decorator'),
}
```

resolve.unsafeCache

保存搜索过的路径,下次启动编译,不再搜索。

exclude

```
test: /\.jsx$/,
loader: 'babel',
query: {
    "plugins": [
        ["transform-helper-modules"],
        ["transform-decorators-legacy"],
        ["transform-react-jsx", { "pragma":"preact.h" }]
    ],
    presets: [
        'es2015-loose',
exclude: /node_modules/,
```

- 慎用
- 1. resolve.root
- 2. resolve.modulesDirectory
- 3. resolve.fallback

全量 编译的 188

15s

Version: webpack 1.13.2	
Time: 15145ms	
Asset	Size
./css/spa7-4d7ef5.css	19.3 kB
js/spa9y-f9e424.js	379 kB
js/spa7-f9e424.js	379 kB
js/spa6-f9e424.js	379 kB
js/spa5-f9e424.js	379 kB
js/spa4-f9e424.js	379 kB
js/spa3-f9e424.js	379 kB
js/spa2-f9e424.js	379 kB
js/spa10-f9e424.js	379 kB
js/spa1-f9e424.js	379 kB

缓存

babel-loader

```
test: /\.js$/,
    loader: 'babel',
    query: 1
        cacheDirectory: './webpack_cache/',
            ["transform-helper-modules"],
            ['transform-decorators-legacy']
        ],
        presets: [
            'es2015-loose',
            'react',
    exclude: /node_modules/,
},
```

缓存

Version: webpack 1.13.2 Time: **8100**ms Size Asset 19.3 kB ./css/spa7-4d7ef5.css js/spa9y-f9e424.js 379 kB js/spa7-f9e424.js 379 kB js/spa6-f9e424.js 379 kB js/spa5-f9e424.js 379 kB js/spa4-f9e424.js 379 kB js/spa3-f9e424.js 379 kB js/spa2-f9e424.js 379 kB js/spa10-f9e424.js 379 kB

全量 编译的 15s

8s

- Happypack
- js

```
new HappyPack({
    id: 'jsHappy',
    loaders: [{
        path: 'babel',
        query: {
            cacheDirectory: './webpack_cache/',
            plugins: ['transform-decorators-legacy'],
            presets: [
                'es2015-loose',
                'react',
   }],
}),
```

- happypack
- css (用不了extract-text-webpack-plugin

```
test: /\.less$/,
  loader: "happypack/loader?id=lessHappy",
  include: path.resolve(configWebpack.path.src)
},
```

- happypack
- css (用不了extract-text-webpack-plugin

```
new HappyPack({
    id: 'lessHappy',
       loaders: ['style', 'css', 'less'],
}),
```

happypack



5s

Version: webpack 1.13.2 Time: 5308ms	
	Ci To
Asset	Size
libs/react-e4c416.js	147 kB
js/spa9-3efe60.js	415 kB
js/spa7-3efe60.js	415 kB
js/spa6-3efe60.js	417 kB
js/spa5-3efe60.js	417 kB
js/spa4-3efe60.js	417 kB
js/spa3-3efe60.js	417 kB
js/spa2-3efe60.js	417 kB
js/spa10-3efe60.js	417 kB
js/spa1-3efe60.js	417 kB

成果

26s **J** 5s

成果

如果有代码丑化,如何?

66s



19.5s

webpack.optimize.
UglifyJsPlugin

webpack-uglify-parallel

成果

如果有代码丑化,如何?

Version: webpack 1.13.2	
Time: 65885ms	
Asset	Size
./css/spa7-36cf9e.css	11.3 kB
js/spa9-615a20.js	373 kB
js/spa7-615a20.js	373 kB
js/spa6-615a20.js	373 kB
js/spa5-615a20.js	373 kB
js/spa4-615a20.js	373 kB
js/spa3-615a20.js	373 kB
js/spa2-615a20.js	373 kB
js/spa10-615a20.js	373 kB
js/spa1-615a20.js	373 kB

Version: webpack 1.13.2	
Time: 19590ms	
Asset	Size
libs/react-e4c416.js	147 kB
js/spa9-ef7be5.js	165 kB
js/spa7-ef7be5.js	165 kB
js/spa6-ae7ae9.js	165 kB
js/spa5-ae7ae9.js	165 kB
js/spa4-ef7be5.js	165 kB
js/spa3-ef7be5.js	165 kB
js/spa2-ef7be5.js	165 kB
js/spa10-2d4a27.js	165 kB
js/spa1-f7f79b.js	165 kB

Webpack有无更好的livereload方式?

旧的live reload都是整个页面刷

热刷新/热替换

- 1. 自建server
- 2. React-hot-loader
- 3. HotModuleReplacementPlugin

自建server

```
var express = require('express');
var app = express();
var webpack = require('webpack');
var webpackDevMiddleware = require("webpack-dev-middleware");
var webpackHotMiddleware = require("webpack-hot-middleware");
var proxy = require('proxy-middleware');
var webpackConfig = require("./webpack.dev.js"),
    config = require("./config.js");
var port = config.server.port;
for (var key in webpackConfig.entry) {
    webpackConfig.entry[key].unshift('webpack-hot-middleware/client');
var compiler = webpack(webpackConfig);
app_use(webpackDevMiddleware(compiler, {
    hot: true,
    // historyApiFallback: false,
    noInfo: false,
    stats: {
        colors: true
    },
}));
app_use(webpackHotMiddleware(compiler));
// 前端转发
app_use(config.server.hostDirectory, proxy('http://localhost:' + port));
//后台转发
app.use('/api/', proxy('http://localhost:3001'));
app.listen(port, function(err) {
    if (err) {
        console error(err);
    else {
        console.info("Listening on port %s. Open up http://localhost:%s/ in your browser.", p
});
```

自建server有什么好处

场景:产品找你配置代理体验

proxy-middleware

react-hot-loader

```
test: /\.js$/,
  loaders: ['react-hot'],
  exclude: /node_modules/,
},
```

HotModuleReplacementPlugin

```
plugins: [
    // new Clean(['dist', 'build']),
    // new webpack optimize CommonsChunkPlugin('main', null, false),
    new webpack.HotModuleReplacementPlugin(), //
    new webpack.optimize.OccurenceOrderPlugin(),
    new HtmlWebpackPlugin({
```

1个几万行的js bundle报错,如何定位?

```
Index.js:23873
[HMR] connected

pack_require__(436);
ack_require__(!(function webpackMissingModule() { var e = new Error("Cannot find module \"../(annot find module \"..
```

devtool

devtool	build speed	rebuild speed	production supported	quality
eval	+++	+++	no	generated code
cheap-eval-source-map	+	++	no	transformed code (lines only)
cheap-source-map	+	О	yes	transformed code (lines only)
cheap-module-eval-source- map	0	++	no	original source (lines only)
cheap-module-source-map	0	-	yes	original source (lines only)
eval-source-map	_	+	no	original source
source-map	_	_	yes	original source

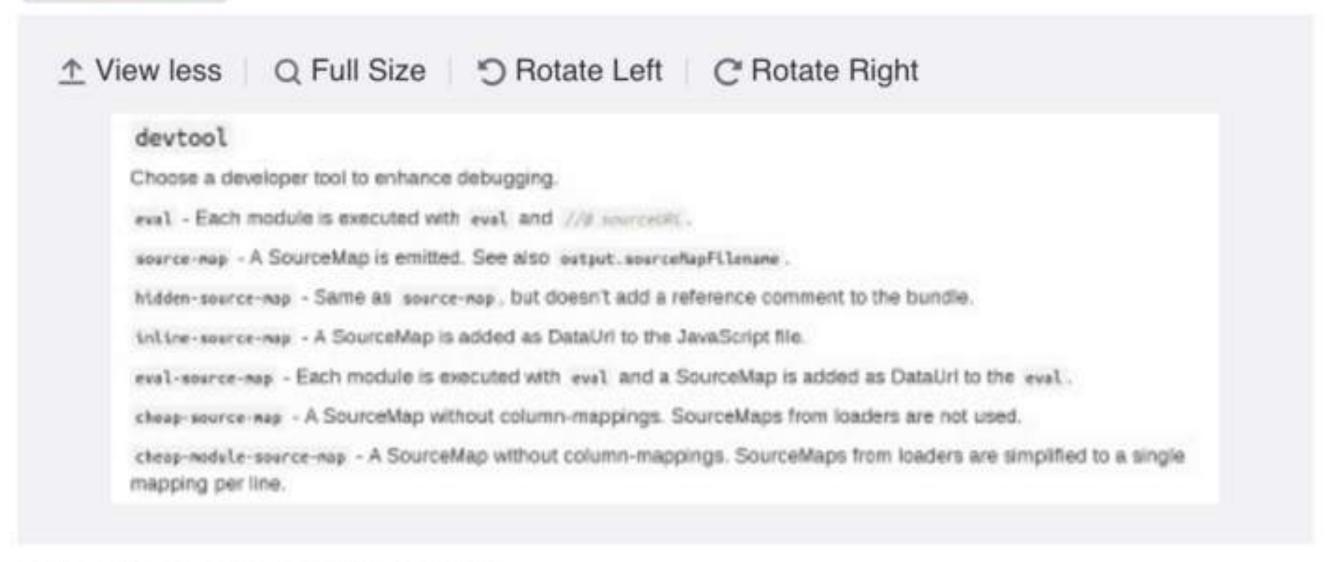
devtool



ruanyf 📆

Webpack为什么难用?一个例子是,单单sourcemap的配置就有7种,文档根本没怎 么解释! React创始人之一的Pete Hunt说,他也搞不清楚,更别提新手了。

@ 网页链接



Today 10:13 come from 微博手机版

B11

devtool

个人喜欢 inline-source-map,信息详尽eval, 速度快

devtool

```
Index.js x
  import webpack:///./src/page/index/container/index.js
                                                 'react';
  2 import
  3 import { render } from 'react-dom';
  4 import { getHash, isHttps } from 'utils';
  5 import Connect from '../connect/connect';
  6 import { GET_NEWS_LIST, GET_TOP_NEWS } from '../../common/constants/constants';
  7 import { LATEST_NEWS, LIKE_NEWS } from '../constants/constants';
 9 import Scroll from 'scroll';
10 import Spinner from 'spinner';
11 import List from '../components/list/index';
12 import Tab from '../components/tab/index';
13 import Loading from '../components/loading/index';
14
15 require('./index.less');
17 class Wrapper extends Component {
18
19
        constructor(props, context) {
20
            super(props, context);
21
            this.state = {
22
23
            };
24
25
            this.firstGetAllData = false;
26
            this.loadTopNews = this.loadTopNews.bind(this);
27
            this.loadNewsList = this.loadNewsList.bind(this);
28
            this.loadData = this.loadData.bind(this);
29
            this.loadDataForScroll = this.loadDataForScroll.bind(this);
 30
32
        componentDidMount() {
            f 🔞
34
36
        componentWillMount() {
27
            thic loadTonNows().
```

区分开发环境与生产环境

- 1. 在package.json里面的script设置环境变量
- 2. 在webpack.xxx.js使用process.env.NODE_ENV进行判断

```
"scripts": {
    "dev": "node ./tools/gulpfile.js&&node ./tools/webpack.config.js",
    "pub": "node ./tools/gulpfile.js&&export NODE_ENV=_PROD__&&node ./
},
```

Mac & Linux => export
Windows => set

```
new webpack.DefinePlugin({
    "process.env": {
        NODE_ENV: JSON.stringify(config.env)
    }
}),
```

```
if ("__PROD__" !== process.env.NODE_ENV) {
    window.console.dev = function(msg) {
        console.log(msg);
    };
    module.exports = require('./Root.dev');
}
else {
    window.console.dev = function(msg) {};
    module.exports = require('./Root.prod');
}
```

终于项目发布了



老板: 哇靠, 首屏时间10秒, 年终还要不要?



我:。。。。。。

大规模应用如何借助 webpack优化

webpack scalability

webpack的手段

- 1. cdn & hash
- 2. 减少首屏包大小
- 3. 减少总体包大小

• 为什么用cdn

如果没钱,最直接的使用cdn办法,就是多个域名指向同一台服务器。

```
publicPath: configWebpack.cdn,
    puth.puth.join(configWebpack.puth.puth.puth.
    filename: "[name]-" + configWebpack.chunkhash + ".js",
},
    modulo: [
```

• options.publicPath: string override the publicPath setting for this loader

- Webpack能设置哪些cdn
- 1. cdn of js / img => output.publicPath
- 2. cdn of css => extract-text-webpack-plugin

- 为什么给静态资源加hash
- 1. 避免覆盖旧文件
- 2. 回滚方便,只需要回滚html
- 3. 由于文件名唯一,可开启服务器永远缓存

基本概念

- 1. hash
- 2. chunkhash
- 3. contenthash (extract-text-webpack-plugin)

使你的chunk根据内容生成md5 Webpack-md5-hash

拆包

- require
- require.ensure
- router

• 离线包大影响下载/更新速度

- CommonsChunkPlugin
- 1. Entry chunk

```
new webpack.optimize.CommonsChunkPlugin({
    name: "commons",
    // (the commons chunk name)
    filename: "commons.js",
    // (the filename of the commons chunk)
    // minChunks: 3,
    // (Modules must be shared between 3 entries)
    chunks: ["js/index", "js/spa"],
    // (Only use these entries)
}),
```

CommonsChunkPlugin

2. Explicit vendor chunk

```
entry: {
    'js/index': [configWebpack.path.src + '/page/index/main.js'],
    'js/pindex': [configWebpack.path.src + '/page/pindex/main.jsx'],
    'js/spa': [configWebpack.path.src + '/page/spa/main.js'] ,
    'js/vendor': ['react', 'react-dom'],
},
```

```
new webpack.optimize.CommonsChunkPlugin({
    name: "vendor",
    // (the commons chunk name)
    filename: "vendor.js",
    // (the filename of the commons chunk)
}),
```

CommonsChunkPlugin

3. 将被拆包公共部份提取到common chunk中

4. 同3, 但将公共部份提到到单独的文件中

- Commons Chunk Plugin 带来的问题
- 1. 包含动态加载chunk,导致hash频繁变化 chunk-manifest-webapck-plugin
- 2. 增量更新,commonchunk与chunk中module id对应不上

recordsPath, recordsInputPath, recordsOutputPath

• Commons Chunk Plugin 带来的问题

recordsPath: path resolve('records.json'),

```
ose\",\"react\"]}!src/page/common/components/touch/index.js": 21,
ose\",\"react\"]}!src/page/spa/constants/constants.js": 22,

ose\",\"react\"]}!src/page/common/actions/actions.js": 28,
ose\",\"react\"]}!src/page/common/components/spinner/index.js": 29,
ose\",\"react\"]}!src/page/common/middleware/api.js": 30,
ose\",\"react\"]}!src/page/index/constants/constants.js": 31,
ose\",\"react\"]}!src/page/pindex/constants/constants.js": 32,
ose\",\"react\"]}!src/page/spa/connect/connect.js": 33,
```

webpack2前瞻

webpack future

就是把没用的代码,从代码树里摇走

```
utils.js

vexport function _stringify(val) {
    var returnVal = isObject(val) ? JSON.stringify(val) : val;
    return returnVal;
}

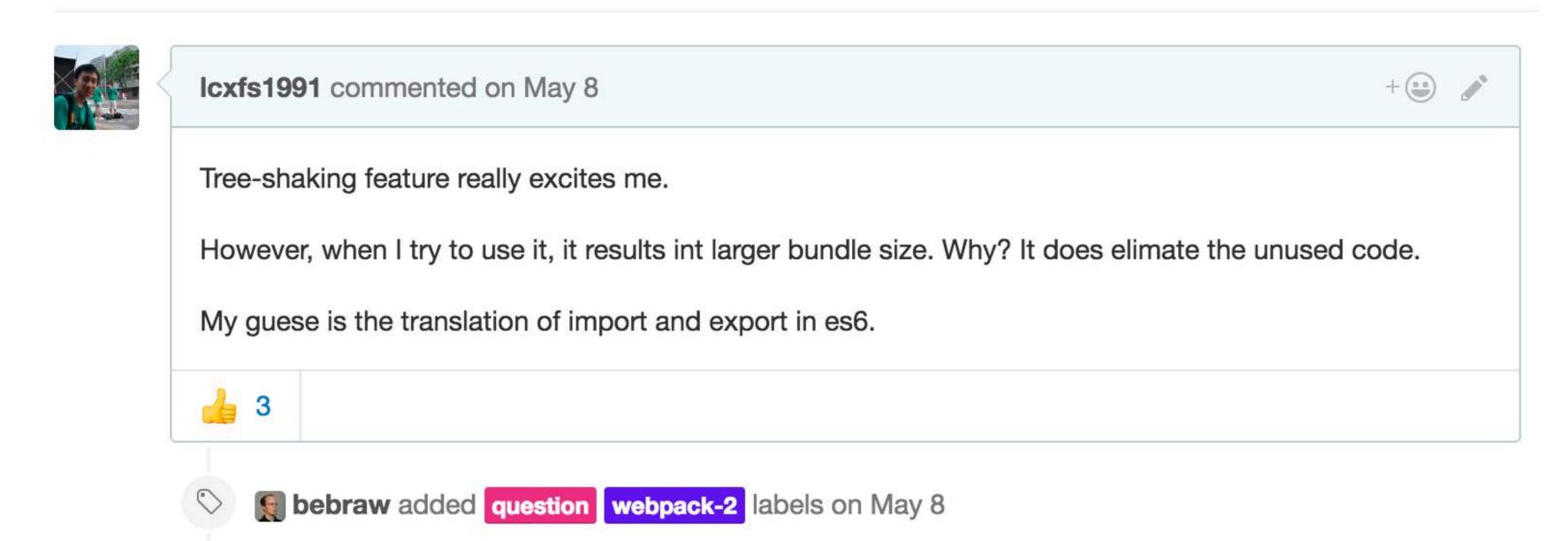
vexport function _parse(val) {
    var returnVal = JSON.parse(val);
    returnVal = isObject(returnVal) ? returnVal : val;
    return returnVal;
}
```

webpack2.0 tree-shaking results in larger bundle size

#2451



Icxfs1991 opened this issue on May 8 · 11 comments



- 1. babel-preset-es2015-loose-native-modules
- 2. babel-preset-es2015-native-modules

去掉了transform-es2015-modules-commonjs

Webpack2

```
js/index-932136.js
                      69.4 kB
                                       [emitted]
                                                 index
js/pindex-8e6acd.js
                      66.1 kB
                                       [emitted]
                                                 pindex
  js/spa-66e540.js
                     165 kB
                                       [emitted]
                                                 spa
     Webpack2 with tree-shaking
js/index-511401.js
                                       [emitted]
                      65.5 kB
                                                 index
js/pindex-ec2b41.js
                      62.4 kB
                                       [emitted]
                                                 pindex
  js/spa-a9c0e3.js
                                       [emitted]
                       161 kB
                                                 spa
```

Webpack1

```
js/index-fec99b.js 68.8 kB 1 [emitted] js/index
js/pindex-28565f.js 66.3 kB 2 [emitted] js/pindex
js/spa-05414c.js 165 kB 0 [emitted] js/spa
```

Code Split

- system.import
- 返回promise
- 捕获加载error

Code Split

```
export const routeConfig = {
   component: App,
   childRoutes: [
       path: '/',
       getComponent(location, cb) {
           System.import('../container/index')
                  then(loadRoute(cb))
                  .catch(errorLoading);
   },
{
       path: 'detail/:id/:commentid',
       getComponent(location, cb) {
           System.import('../container/detail')
                  then(loadRoute(cb))
                  .catch(errorLoading);
       path: 'comment/:id',
       getComponent(location, cb) {
           System.import('../container/comment')
                  then(loadRoute(cb))
                  .catch(errorLoading);
```

webpack2 Demo

 https://github.com/SteamerTeam/steamer-react/tree/ dev

webpack2生成代码分析

• https://github.com/lcxfs1991/blog/issues/14

如有谬误,恳请斧正

Please give a shot