用比较性思维谈工程化工具在Vue.js的优雅设计、



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React Angular

Q: Vue.js比jQuery好学吗

简洁与简单

jQuery

```
<div id="output"></div>
<button id="increment">Increment/button>
var counter = 0;
$(document).ready(function() {
 var $output = $('#output');
 $('#increment').click(function() {
  counter++;
  $output.html(counter);
 });
 $output.html(counter);
});
```

Vue.js

```
<div id="app">
 <div>{{ counter }}</div>
 <button v-on:click="increment">Increment
</div>
new Vue({
 el: '#app',
 data: { counter: 0 },
 methods: {
  increment() {
   this.counter++;
```

大纲

- ▶脚手架工具
 - ▶vue-cli探究
 - ▶其他cli对比
- ▶基于Webpack的构建体系:
 - ▶本地开发
 - ▶测试环境部署
 - ▶发布上线
 - ▶优化工具

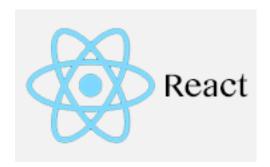
- ≻Vue组件编译
- ➤ Rollup编译vue lib
- ▶Babel如何在vue中应用
- **▶ESLint**如何在vue中应用
- ▶Yarn如何在vue中应用
- ▶一些工具编写的收获

▶复杂业务系统

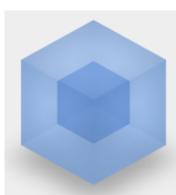
alleviate the amount of copy & pasting you do between projects











Pick the right tool for the job

工具复杂度是为了处理内在复杂度所做的投资 - 尤雨溪

《Vue 2.0,渐进式前端解决方案》

VO



最早的脚手架工具,非常简单的 API

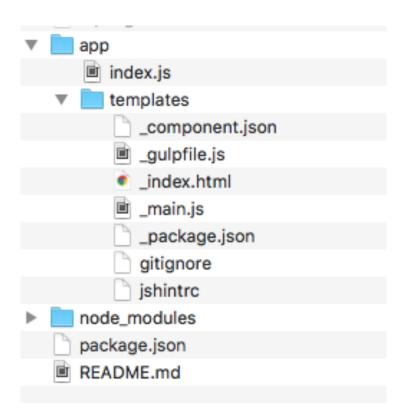
generator-vue

```
→ vue-conf yo -h
Usage: yo GENERATOR [args] [options]

General options:
    -h, --help # Print generator's options and usage
    -f, --force # Overwrite files that already exist

Please choose a generator below.
```

```
vue-conf yo
cmd undefined
[?] What would you like to do?
Run the Gulp-webapp generator (0.1.0)
Run the Polymer generator (0.6.3)
Run the React generator (0.0.1)
Run the Vue generator (0.0.2)
Run the Wdj generator (0.4.4)
Run the Webapp generator (0.4.2)
Run the Yc generator (0.0.1)
```



```
vue-cli
```

```
vue-conf vue help
Usage: vue <command> [options]
Commands:
 init
        generate a new project from a template
 list list available official templates
 help [cmd] display help for [cmd]
Options:
 -h, --help output usage information
 -V, --version output the version number
```

官方出品的命令行脚手架工具,支持:

- 1、vue init 按照指定模板,在指定目录生成项目结构
- 2、vue list 列出线上 vuejs-templates repo 支持的模板列表

vue-cli



目录结构:

bin

- vue
- vue-init
- vue-list

lib

- ask.js
- check-version.js
- eval.js
- filter.js
- generate.js
- git-user.js
- logger.js
- options.js

```
package.json 中配置:

"bin": {
    "vue": "bin/vue"
}

文件头:
#!/usr/bin/env node
```

```
vue-conf vue init webpack pro
'webpack', 'pro' ]
A newer version of vue-cli is available.

latest: 2.8.2
installed: 2.1.0
```

vue init

支持3种方式的模板初始化:

- 1、官方
- 2、本地
- 3、线上其他repo

目录结构:

vue-conf build

- build.js
- check-version.js
- dev-client.js
- utils.js
- vue-loader.conf.js
- webpack.base.conf.js
- webpack.dev.conf.js
- webpack.prod.conf

config

- dev.env.js
- index.js
- prod.env.js

src

static

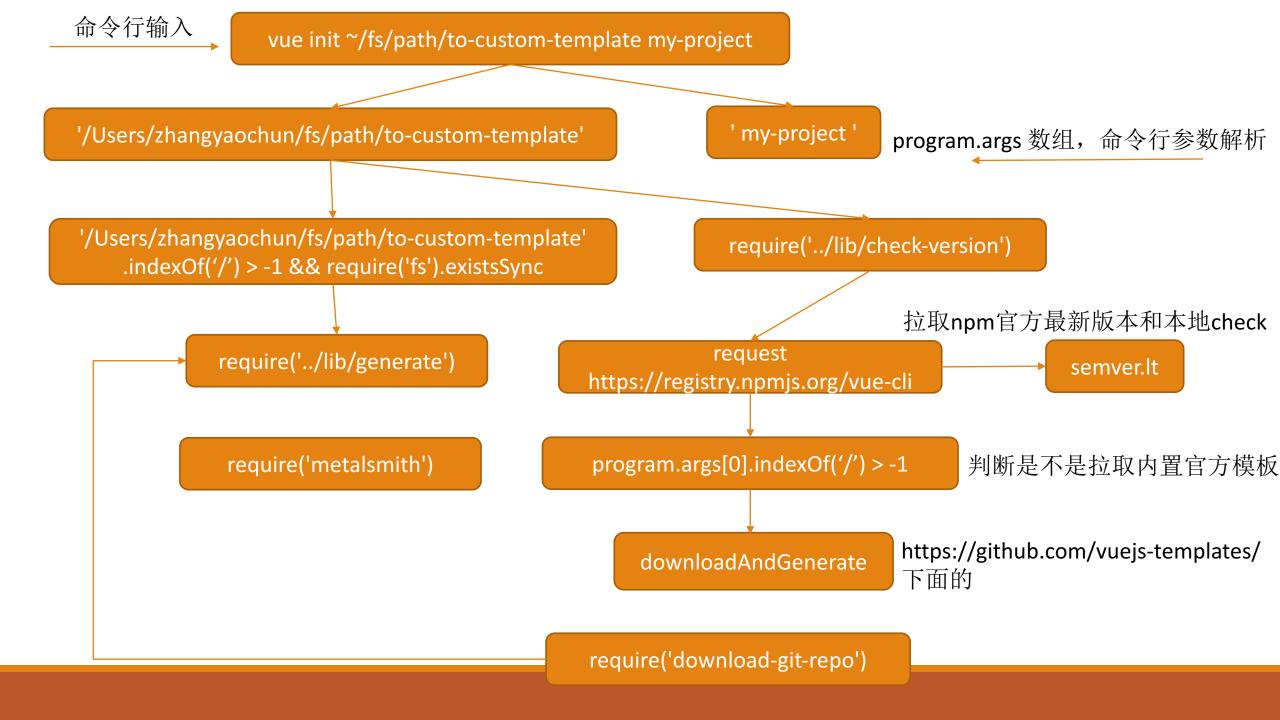
.babelrc

• • •



https://github.com/vuejs-templates





vue list



从远程拉取官方模板列表数据,然后在命令行展示

vue list

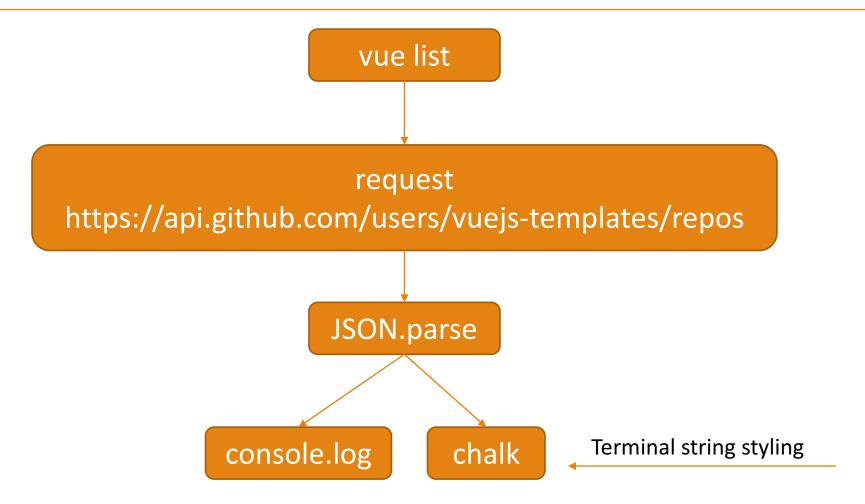


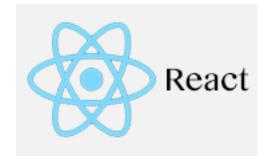
```
→ ~ vue list
```

request debugger by zyc for vue-conf Available official templates:

- ★ browserify A full-featured Browserify + vueify setup with hot-reload, linting & unit testing.
- ★ browserify-simple A simple Browserify + vueify setup for quick prototyping.
- ★ pwa PWA template for vue-cli based on the webpack template
- ★ simple The simplest possible Vue setup in a single HTML file
- ★ webpack A full-featured Webpack + vue-loader setup with hot reload, linting, testing & css extraction.
 - ★ webpack-simple A simple Webpack + vue-loader setup for quick prototyping.

vue list





create-react-app

React 脚手架命令行工具: 源码就一个 index.js 文件, 528 行 – 39 行顶部注释 依赖 react-scripts

create-react-app

```
create-react-app -h
  vue-conf
 Usage: create-react-app  project-directory> [options]
 Options:
   -h, --help
                                            output usage information
   -V, --version
                                            output the version number
   --verbose
                                            print additional logs
   --scripts-version <alternative-package> use a non-standard version of react
-scripts
   Only opect-directory> is required.
   A custom --scripts-version can be one of:
     - a specific npm version: 0.8.2
     - a custom fork published on npm: my-react-scripts
     - a .tgz archive: https://mysite.com/my-react-scripts-0.8.2.tgz
   It is not needed unless you specifically want to use a fork.
   If you have any problems, do not hesitate to file an issue:
     https://github.com/facebookincubator/create-react-app/issues/new
```

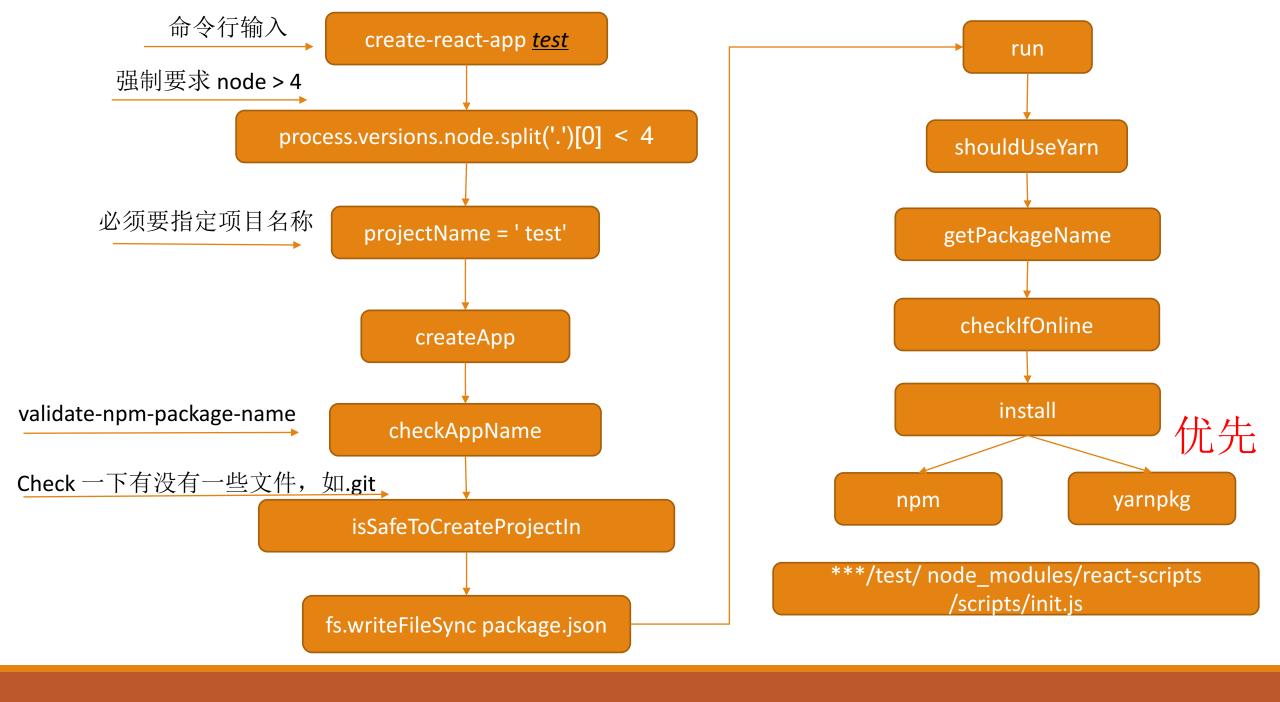
目录结构:

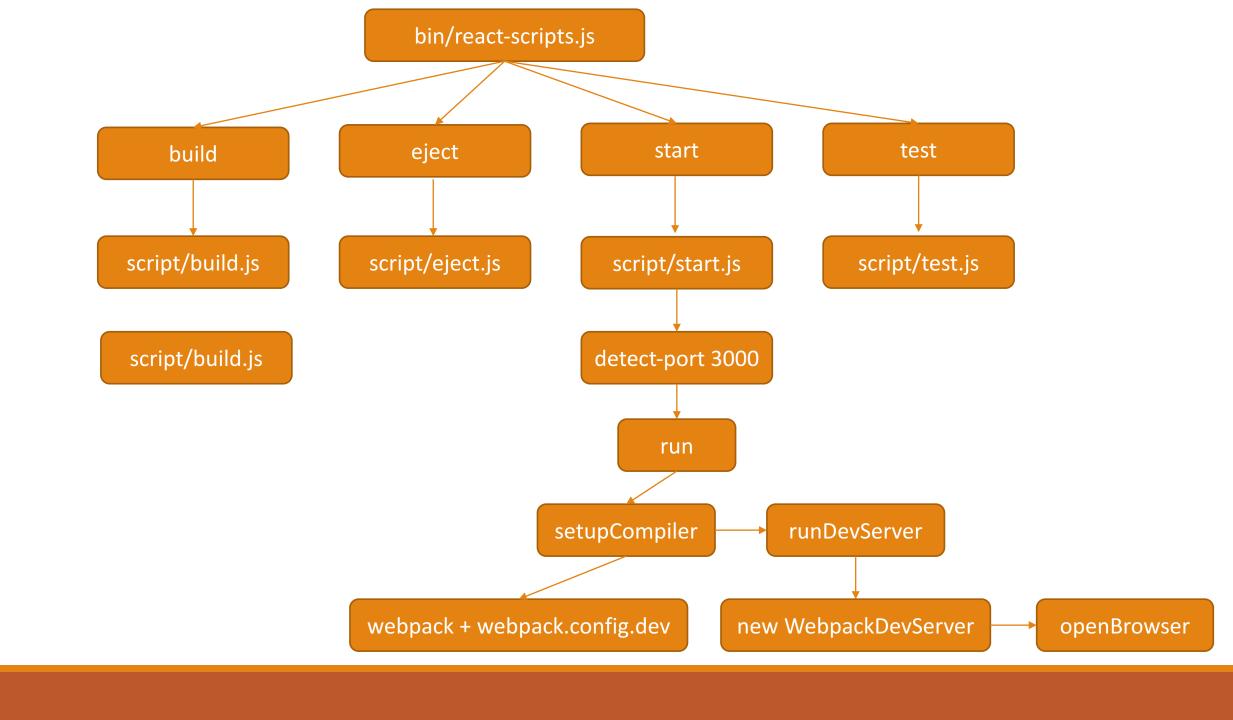
public

- favicon.ico
- index.html

src

- App.css
- App.js
- App.test.js
- index.css
- index.js
- logo.svgnode_modulespackage.jsonRFADMF.md





create-react-app VS vue-cli

都是基于 webpack 构建

create-react-app: 更多封装在了react-scripts 里面,同时把它加到了初始项目的依赖里面:

vue-cli:

更为直接,把脚本模板都直接放到 build 文件夹中,开发者更容易修改

```
"dependencies": {
                     "react": "^15.5.4",
                     "react-dom": "^15.5.4"
build
                        lependencies": {
 build.js
                         act-scripts": "0.9.5"
 check-versions.js
 dev-client.js
                         pts": {
 dev-mock.js
                         art": "react-scripts start",
 dev-server.is
                         ild": "react-scripts build",
                         st": "react-scripts test --env=jsdom",
 utils.js
                         ect": "react-scripts eject"
 vue-loader.conf.js
 webpack.base.conf.js
 webpack.dev.conf.js
 webpack.prod.conf.js
 webpack.prod.conf_bak.js
```

angular-cli

从 2 版本开始才有的,依赖 ember-cli

→ vue-conf ng -h
The specified_command -h is invalid. For available options, see `ng help`.

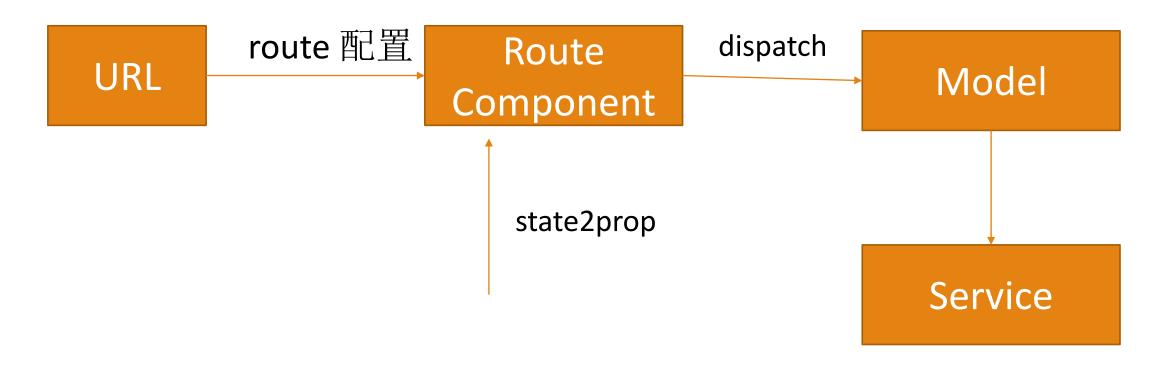
处理复杂的业务系统呢?

文件夹多,直接的各种关系 主动实例化

dva-cli + dora

dora-plugin-proxy dora-plugin-webpack dora-plugin-webpack-hmr

vue-cli + vuex + vue-route



这些脚手架的差异点

工具名称	命令行工具	模板	拷贝文件方式	依赖安装	Npm 还是 yarn
vue-cli	commander	远程:官方、用户自定义本地	metalsmith	不自动,不可配 置	
create-react-app	commander	本地,但是在依赖的 react-scripts/template	react-scripts /scripts/init.js	自动,不可配置	优先yarn
dva-cli	commander	本地	dva-ast boilerplates	自动	
yo	nopt	本地	yeoman-generator	可以配置	
angular-cli	ember-cli	本地			

webpack

和 Vue.js 结合最紧密的构建工具

配置分离

采用 webpack-merge 和 webpack.base.conf.js + webpack.prod.conf.js

Npm script

webpack-merge & process.env.npm_lifecycle_event

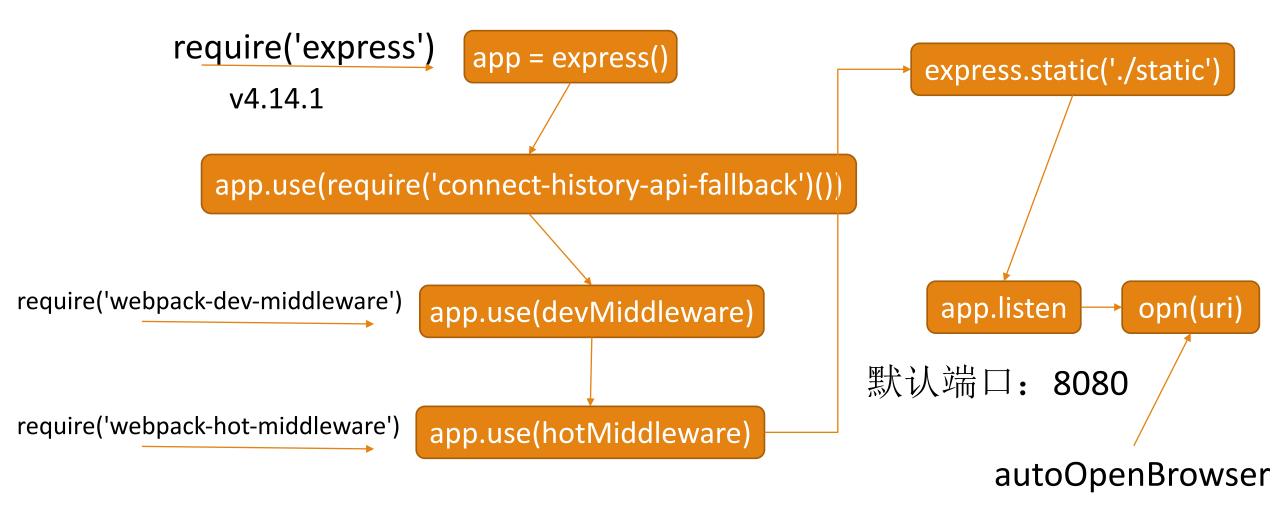
```
//早期
                                                webpack.base.conf.js
var path = require('path');
var merge = require('webpack-merge');
                                                常规的配置,比如 output
var TARGET = process.env.npm_lifecycle_event;
var common = {
                                                webpack.prod.conf.js 文件内容:
 entry: path.join(___dirname, 'app'),
 ... module: { loaders: [] }
                                                var merge = require('webpack-merge')
};
                                                var baseWebpackConfig = require('./webpack.base.conf')
if(TARGET === 'build') {
                                                var webpackConfig = merge(baseWebpackConfig, {
  module.exports = merge(common, { ... });
                                                })
                                                module.exports = webpackConfig
```

本地开发

Express + 多个中间件:

- ✓ connect-history-api-fallback
- ✓ webpack-hot-middleware
- √ http-proxy-middleware
- ✓ express.static

dev-server



Webpack插件

DefinePlugin

动态的注入一些变量, 比如一些版本、环境信息等

```
new webpack.DefinePlugin({
   'process.env': env
}),
```

friendly-errors-webpack-plugin

recognizes certain classes of webpackerrors and cleans, aggregates and prioritizes them to provide a betterDeveloper Experience

vue-devtools

```
"name": "Vue.js devtools",
"version": "3.1.2",
"description": "Chrome devtools extension for debugging Vue.js applications.",
"manifest_version": 2,
"icons": {
  "16": "icons/16.png",
  "48": "icons/48.png",
  "128": "icons/128.png"
"browser action": {}
"devtools page": "devtools-background.html",
"background": {}
```

```
"content_security_policy": "script-src 'self' 'unsafe-eval'; object-src 'self'",
"web_accessible_resources": [ "devtools.html", "devtools-background.html", "build/backend.js" ],
"devtools_page": "devtools-background.html",
"background": {
  "scripts": [ "build/background.js" ],
  "persistent": false
},
"permissions": [
  "http://*/*",
  "https://*/*",
  "file://*"
],
"content_scripts": [
    "matches": ["<all_urls>"],
    "js": ["build/hook.js"],
    "run_at": "document_start"
  },
    "matches": ["<all_urls>"],
    "js": ["build/detector.js"],
    "run_at": "document_idle"
```

上传测试环境

webpack-sftp-client

开发过程中把本地资源 push 到开发机

webpack-sftp-client 如何使用

var WebpackSftpClient = require('webpack-sftp-client')

```
plugins: [
  new WebpackSftpClient({
    port: '22',
    host: '***'
    path: './dist/',
    remotePath: ' '
```

没有用户名密码? 推荐免登陆

上传多台咋办?

webpack-sftp-client

```
var client = require('scp2'); // 核心还是依赖 scp2 这个包
function WebpackSftpClient(options) {
 this.options = options;
WebpackSftpClient.prototype.apply = function(compiler) {
 compiler.plugin('after-emit', function(compilation) {
 // 读取配置,调用 client.scp
```

打包上线

webpack.optimize.UglifyJsPlugin extract-text-webpack-plugin optimize-css-assets-webpack-plugin

打包上线一低频

```
if (config.build.productionGzip) {  默认 false
 var CompressionWebpackPlugin = require('compression-webpack-plugin')
 webpackConfig.plugins.push(
   new CompressionWebpackPlugin({
    asset: '[path].gz[query]',
    algorithm: 'gzip',
     test: new RegExp((\).('+config.build.productionGzipExtensions.join('|') +
')$'),
    threshold: 10240,
     minRatio: 0.8
```

html-webpack-inline-source-plugin

FIS 应用最频繁的 __inline

```
new HtmlWebpackPlugin({
  filename: config.build.index,
  template: 'index.html'.
  inlineSource: 'manifest',
  inject: true,
  minify: {-
  // necessary to consistently
  chunksSortMode: 'dependency'
```

new HtmlWebpackInlineSourcePlugin()

html-webpack-inline-source-plugin

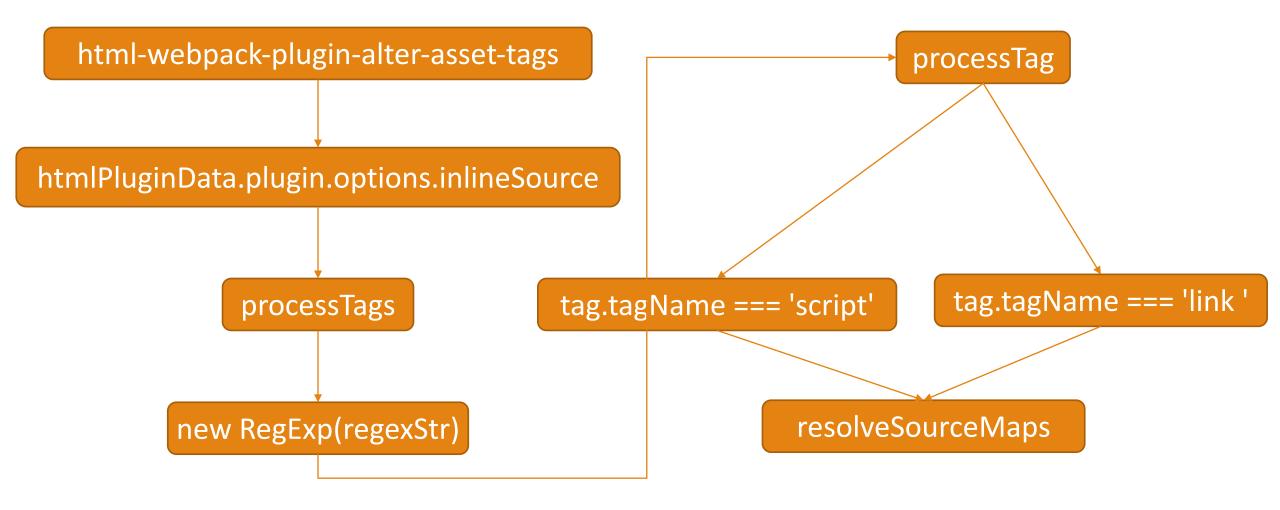
应用示例:

```
<script type=text/javascript src=/static/js/manifest.067cf2fb4cdf4b55947f.
js></script>
<script type=text/javascript src=/static/js/vendor.db4d69a89d75cecaafa2.js>
</script>
<script type=text/javascript src=/static/js/app.fb9e1e9126814c6e1495.js></script>
```

vendor和app打包之后都强依赖 manifest 文件的: webpackJsonp()

如果是 CDN 文件, 时序问题随即而来

html-webpack-inline-source-plugin



CommonsChunkPlugin

```
<script type=text/javascript src=/static/js/manifest.067cf2fb4cdf4b55947f.
js></script>
<script type=text/javascript src=/static/js/vendor.db4d69a89d75cecaafa2.js>
</script>
<script type=text/javascript src=/static/js/app.fb9e1e9126814c6e1495.js></script>
```

Entry Chunk: 入口代码块包含了 webpack 运行时需要的一些函数

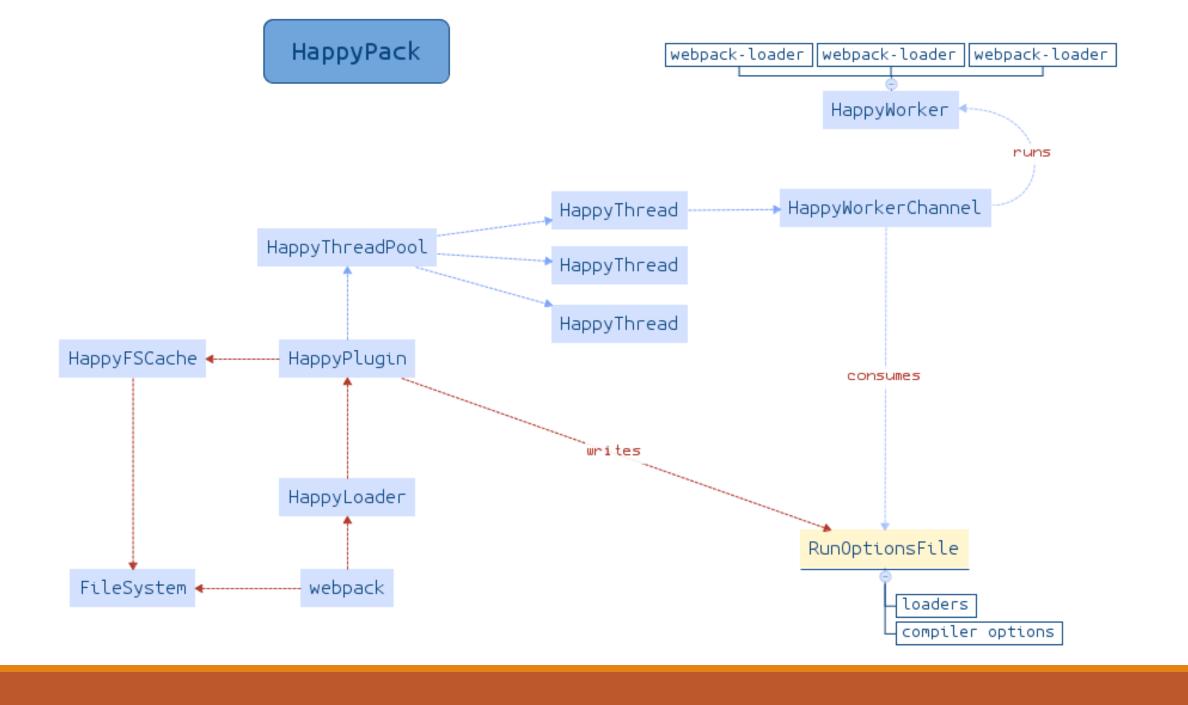
Normal Chunk

Webpack优化

happypack

问题: loader 默认都是一个进程在跑

解法: 多进程、缓存



webpack优化

如何变的更快:

```
resolve: {
  alias: {
      'react': '***',
    }
}
```

指定一些模块的引用路径,提高搜索速度

webpack — devtool 配置

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

// webpack.dev.conf.js
devtool: '#cheap-module-eval-source-map'

// webpack.prod.conf.js devtool: config.build.productionSourceMap? '#source-map' : false,

babel

无处不在的 ES6

babel

```
.babelrc
"devDependencies": {
  "babel-core": "^6.9.0",
  "babel-loader": "^6.2.4",
                                       "presets": ["es2015", "flow-vue"],
  "babel-preset-es2015": "^6.9.0",
                                        "ignore": [
  "babel-preset-flow-vue": "^1.0.0",
                                           "dist/*.js",
                                           "packages/**/*.js"
"plugins": ["transform-vue-jsx"] → 2.1.0+
"plugins": ["transform-vue-jsx", "syntax-dynamic-import"] - 2.2.0+
```

babel-plugin-transform-vue-jsx

支持JSX

ESLint

.eslintrcbabel-eslinteslint-loader

```
eslint -h
eslint [options] file.js [file.js] [dir]
Basic configuration:
  -c, --config path::String
                               Use configuration from this file or shareable
                               config
                               Disable use of configuration from .eslintrc
  --no-eslintrc
  --env [String]
                               Specify environments
                               Specify JavaScript file extensions - default:
  --ext [String]
                               .js
                               Define global variables
  --global [String]
  --parser String
                               Specify the parser to be used
  --parser-options Object
                               Specify parser options
```

Use ESLint to lint your code? (Y/n)

- ? Pick an ESLint preset (Use arrow keys)
- > Standard (https://github.com/feross/standard) Airbnb (https://github.com/airbnb/javascript) none (configure it yourself)

eslint --ext .js,.vue src 指定后缀和目录

ESLint -静态检查工具

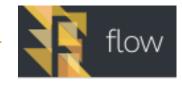
部分配置说明:

- 1、parser: 脚本解析,默认esprima,现在设置 babel-eslint
- 2、plugins: 通过插件实现自定义规则
- 现在设置 plugins: ['html'],需要安装: eslint-plugin-html
- 3、extends:校验规则
- 现在设置 extends: 'standard'
- 4 rules:
- no-debugger: 线上环境为2,其他为0
- 选择哪家标准:
- 适当关闭一些: /* eslint-disable no-undef */

ESLint -静态检查工具

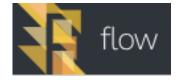
```
"devDependencies": {
  "eslint": "^3.10.1",
  "eslint-config-vue": "^2.0.1",
  "eslint-loader": "^1.3.0",
  "eslint-plugin-flowtype": "^2.16.0",
  "eslint-plugin-vue": "^1.0.0"
"scripts": {
  "lint": "eslint src build test"
```

Flow



Static type checker for your JavaScript code 避免类型安全问题 v2.0.0-alpha.1 + 遇见 vue.js

Flow 依赖



```
"devDependencies": {
    "flow-bin": "^0.39.0"
}

"scripts": {
    "flow": "flow check"
}
```

Vue 组件编译

如何处理 .vue 组件文件

```
Polymer
.html 文件
```

```
<dom-module id="vueconf-home">
     <style>
       :host {
         display: block;
 5
         height: 100%
                            <script>
 6
                         23
     </style>
                         24
                             (function() {
     <template>
                               Polymer({
                        25
       <iron-ajax auto</pre>
                                 is: 'vueconf-home',
10
       handle-as="json" 26
11
                                 behaviors:
       on-response="han 27
                                   Polymer. NeonAnimatableBehavior,
       </iron-ajax>
                        28
13
       <paper-scroll-he 29</pre>
                                   Polymer. NeonAnimationRunnerBehavior
14
       main condenses
       keep-condensed-h 31
15
                                 properties: {},
16
       header-height="232
                                 handleResponse: function(e) {}
       condensed-header 33
17
                              });
       </paper-scroll-h 34 })();</pre>
18
19
     </template>
                         35
   </dom-module>
                            </script>
```

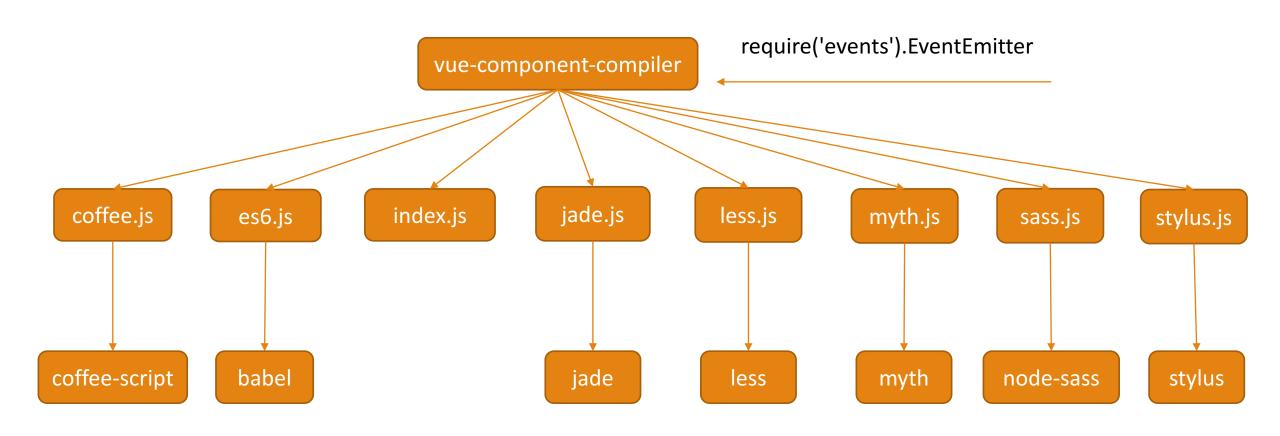
The Vulcanize tool follows HTML Imports and `<script>` tags to inline these external assets into a single page, to be used in production

<link rel="import" href="elements/elements.html">

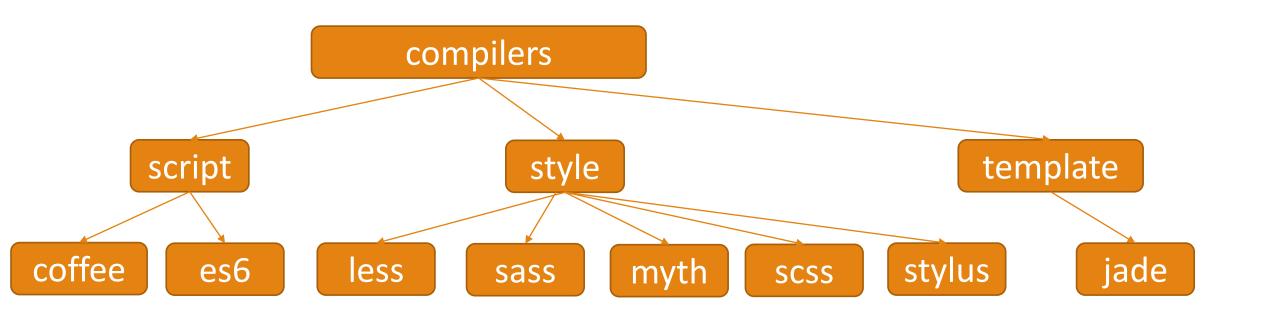
Vue.js 特殊之处.vue 文件

```
<template>
   <div></div>
 3 </template>
  <script>
   export default {
     data () {
       return {}
10
12 </script>
13
14 <style lang='less' scoped>
15 </style>
```

vue-component-compiler



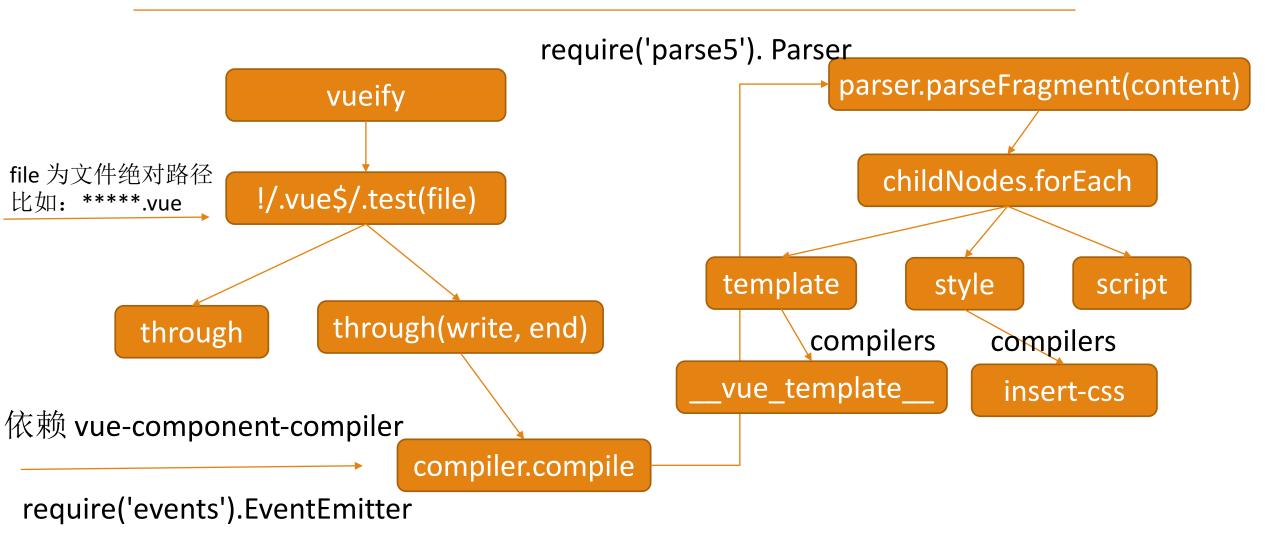
vue-component-compiler



vueify

for browserify

vueify

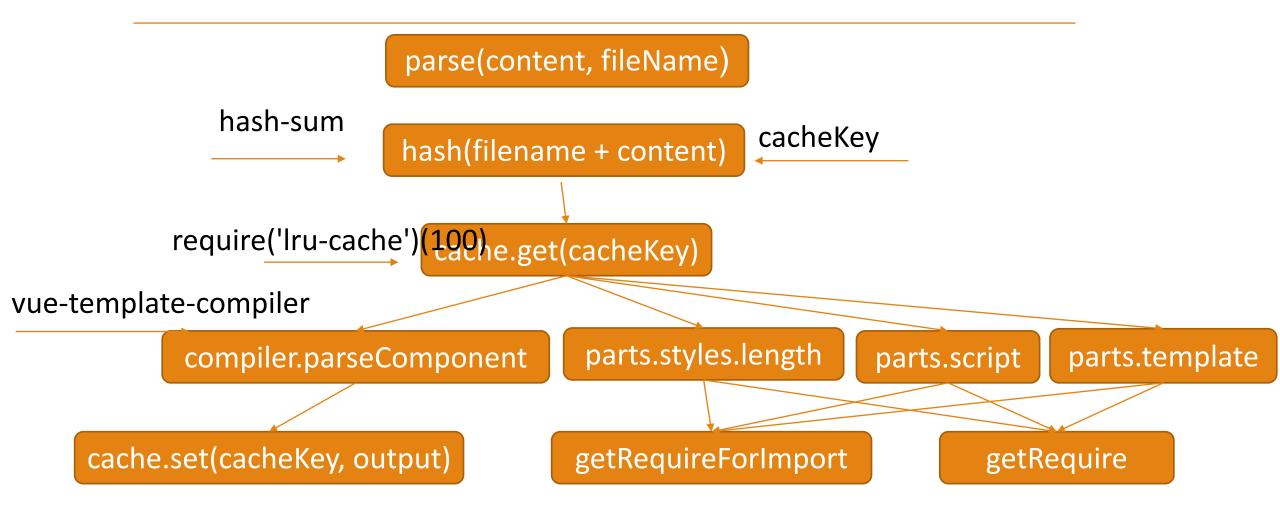


vue-loader

Webpack 的插件,处理 .vue 文件中的三部分:

- * template
- * script
- * styles

vue-loader



PostCSS



在 vue-loader 中扮演什么?

Scoped css 的实现

PostCSS



Hello.vue

```
<style scoped>
h1, h2 {
  font-weight: normal;
h1[data-v-29d0db9e], h2[data-
                           <styl
v-29d0db9e] {
  font-weight: normal;
```

```
/<div data-v-29d0db9e class="hello"> == $0

<h1 data-v-29d0db9e>Welcome to Your Vue.js App
</h1>
<h2 data-v-29d0db9e>Essential Links</h2>

>...
<h2 data-v-29d0db9e>Ecosystem</h2>
<h2 data-v-29d0db9e>Ecosystem</h2>
</div>
</div>
```

postcss



```
插入模板:
```

```
var postcss = require('postcss')
module.exports = postcss.plugin('**', function (opts) {
  return function (css) {
   }
})
```

```
var postcss = require('postcss')
var selectorParser = require('postcss-selector-parser')
module.exports = postcss.plugin('add-id', function (opts) {
 return function (root) {
  root.each(function rewriteSelector (node) {
    node.selector = selectorParser(function (selectors) {
    selectors.each(function (selector) {
      var node = null
      selector.each(function (n) {
       if (n.type !== 'pseudo') node = n
    selector.insertAfter(node, selectorParser.attribute({
     attribute: opts.id
    }))
  }).process(node.selector).result })
}})
```

问题: data-v-29d0db9e 是如何生成的,和什么有关系?

var moduleId = 'data-v-' + genId(filePath, context, options.hashKey)

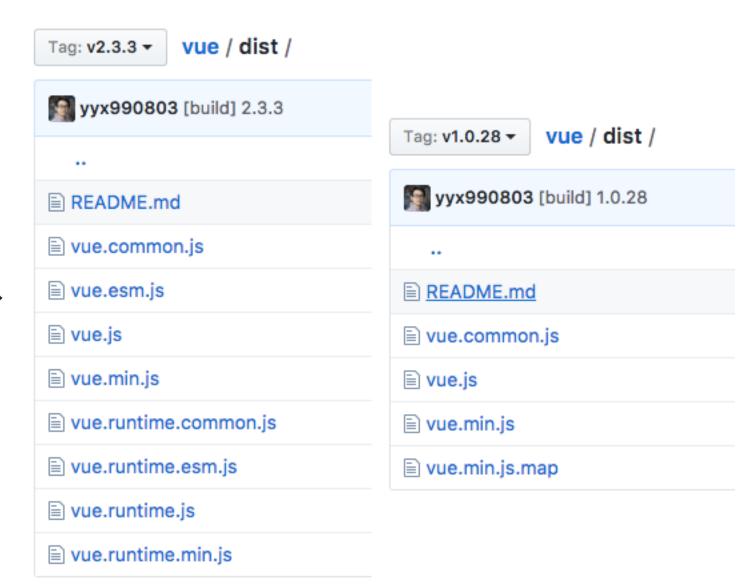
genId

```
var path = require('path')
var hash = require('hash-sum')
var cache = Object.create(null)
var sepRE = new RegExp(path.sep.replace('\\', '\\\'), 'g')

module.exports = function genId (file, context, key) {
  var contextPath = context.split(path.sep)
  var rootId = contextPath[contextPath.length - 1]
  file = rootId + '/' + path.relative(context, file).
  replace(sepRE, '/') + (key || '')
  return cache[file] || (cache[file] = hash(file))
}
```

filePath /Users/zhangyaochun/vue-conf/pro1/src/components/Hello.vue fileName Hello.vue

Vue.js本身如何打包



Rollup

v1.0.9+ 遇见 vue.js

官方: Next-generation ES6 module bundler

目前最新版本: 0.41.6

也有cli 工具

支持Node端和浏览器端

Rollup 用途

在 vue 做什么?

编译源码,输出3个文件:

dist/vue.common.js

dist/vue.js

dist/vue.min.js

```
"devDependencies": {
    "rollup": "^0.21.0"
}
```

```
// build/build.js
rollup.rollup({
   entry: 'src/index.js',
   plugins: []
})
```

一般配置

```
module.exports = {
  entry: './src/index.js',
 format: 'amd',
  dest: './dist/mobike.js',
  plugins: [
    eslint({
      useEslintrc: true
    }),
    resolve({-
    }),
    commonjs(),
    babel({
      exclude: 'node_modules/**'
    }),
    replace({
      exclude: 'node_modules/**',
        VERSION__: JSON.stringify(pkg.version)
   })
```

Rollup 基础-配置

✓ entry

必须的配置:入口文件的路径←

不然会抛错: ♥

\$ You must supply options.entry to rollup

如图:↩

You must specify an --input (-i) option

✓ dest

输出文件的路径↩

✓ format ← 有如下几个值:← cis ← umd ← amd ← iife ← iife ← symbol 、默认值 ←

banner <

plugins <-

external <

paths <

Rollup 基础 - 配置文件

-c, --config <

c: 'rollup.dev.js',

config: 'rollup.dev.js' }

command._ ['rollup.dev2.js']

```
"scripts": {
   "dev": "rollup --config rollup.dev.js",
   "build": "rollup --config rollup.prod.js"
},
```

一般采用配置文件

Could not resolve entry (rollup.dev2.js)

Rollup 插件

依赖的插件到底有哪些呢?

rollup-plugin-babel

```
var rollup = require('rollup')
var babel = require('rollup-plugin-babel')
rollup.rollup({
 entry: 'src/index.js',
 plugins: [
  babel({
                                               exclude: 'node_modules/**'
    loose: 'all'
                                             })◆′
```

rollup-plugin-replace

```
var rollup = require('rollup')
                                                        支持的配置项: ←
var babel = require('rollup-plugin-babel')

 delimiters

                                                        支持自定义占位变量的分隔符,默认是[","]如:←
                                                        delimiters: [ '<@', '@>' ] ←
rollup.rollup({
 entry: 'src/index.js',
                                                        include
 plugins: [

 exclude

   replace({

 values

                                                        值是一个对象,可以直接用 values 来包裹要替换的变量和值:
    'process.env.NODE ENV': "'development'"
                                                        values: {←
                                                         __VERSION__: '0.0.2' 
                                                        }€′
```

rollup-plugin-alias

```
v2.0.0-alpha.1 新增
                        var rollup = require('rollup')
                        var aliasPlugin = require('rollup-plugin-alias')
var path = require('path')
module.exports = {
 core: path.resolve(__dirname, '../src/core'),
 web: path.resolve( dirname, '../src/platforms/web')
                        var alias = baseAlias
                        if (opts.alias) {
                          alias = Object.assign({}, baseAlias, opts.alias)
                         plugins.push(aliasPlugin(alias))
```

rollup-plugin-flow-no-whitespace

```
v2.0.0-rc.4新增
而且抽离出来 config.js
```

```
var rollup = require('rollup')
const flow = require('./rollup-plugin-flow')
const config = {
 entry: opts.entry,
 dest: opts.dest,
 format: opts.format,
 plugins: [
   flow()
```

Rollup 插件入门

rollup-plugin-replace

```
源码初始结构:❖
export default function replace (options = {}) {
  return {
    name: 'replace', «
    transform (code, id) {}
}•
```

Rollup 插件解刨

配置和编译后

```
如何设置∶↩
//rollup 的配置文件♥
module.exports = {←
  replace({
    exclude: 'node_modules/**', "
    __VERSION__: ""0.0.2""
 })◆′
}←
我们的源文件: ♥
window.rolluptest.Version = __VERSION__; ←
4
编译后: ↩
window.rolluptest.Version = '0.0.2'

✓
```

```
1、解析传入 options: ◆
[ exclude: 'node_modules/**', __VERSION__: '"0.0.2"' }
首先会判断是否采用 values 的方式传递要替换变量和值:←
const values = options.values || options; €
然后查看变量的分隔符: ↩
function escape (str) {
   return str.replace( /[\-\[\]\\{\}\(\)\*\+\?\.\\\^\$\|]/g, '\\$&' ); \
}4
const delimiters = ( options.delimiters || [ ", " ] ).map( escape ); ←
解析之后返回:['\\$', '\\$']←
然后会生成一个正则: ←
const pattern = new RegExp( delimiters[0] + '(' + Object.keys( values ).join( '|' ) +
')' + delimiters[1], 'g' ); <-
解析之后: Λ$(__VERSION__)\$/g←
变量替换是在 transform 里面: ←
```

生成匹配正则

通过 MagicString 覆盖内容

```
1) 先实例化♥
const magicString = new MagicString( code ); €
2) 然后通过上面的正则去判断←
一种:返回被替换之后的对象◆
4
// 默认 false, 匹配占位的变量◆
let hasReplacements = false; €
let match: <<p>
←

let start, end, replacement; €
while ( match = pattern.exec( code ) ) {
  hasReplacements = true;
  start = match.index; <-
  end = start + match[0].length;
  replacement = String( values[ match[1] ] ); <-
  magicString.overwrite( start, end, replacement ); <-
}◆
let result = { code: magicString.toString() };
return result;
```

rollup-pluginutils

A set of functions commonly used by Rollup plugins.

包含的方法:

- ✓ addExtension
- ✓ attachScopes
- ✓ createFilter
- ✓ makeLegalldentifier

rollup-plugin-vue

As vue-loader is for webpack and vueify is for browserify, similarly its for rollup.

```
export default function vue (opts = {}) {
    debug('Yo! rolling vue!')
    const filter = createFilter(opts.include, opts.exclude)
    delete opts.include
    delete opts.exclude
    const config = mergeOptions(DEFAULT_OPTIONS, opts)
    const styles = {}
    return {
        name: 'vue',
        options (opts) {},
        resolveId (id) {},
        load (id) {},
        async transform (source, id) {},
        ongenerate () {}
```

yarn & vue



相遇在 v2.0.6 (2016.11)

2016-10-11 来自 Facebook 并和 Google 协作的包管理

快速

安全 - npm publisher 恶意使用

可靠

→ ~ brew install yarn Error: No available formula for yarn

安装方式: npm install --global yarn

目前非最新版本: 0.24.4

yarn



1、离线模式

相比 Npm,每次安装依赖都得从网络下载

2、依赖关系确定性

当没有指定固定的版本号,发生版本更新,会导致再次安装

3、yarn.lock 文件提交 git,保持依赖包版本的一致 (npm shrinkwrap)

记录安装的所有工具包的具体版本号,不删除这个文件,再次 yarn install 会依据记录的版本号来获取依赖包

- 4、扁平模式
- 5 yarn config set registry 'https://registry.npm.taobao.org'

```
# THIS IS AN AUTOGENERATED FILE. DO NOT EDIT THIS FILE DIRECTLY.
# yarn lockfile v1
css-loading@^1.4.0:
   version "1.4.0"
   resolved "https://registry.yarnpkg.com/css-loading/-/css-loading-1.4.0.tgz#45e92356745c8ed06b5610d8c17c5f5fba2b52c5"

fastclick@^1.0.6:
   version "1.0.6"
   resolved "https://registry.yarnpkg.com/fastclick/-/fastclick-1.0.6.tgz#161625b27b1a5806405936bda9a2c1926d06be6a"
```

yarn.lock



https://github.com/vuejs/vue/blob/v2.0.6/yarn.lock

THIS IS AN AUTOGENERATED FILE, DO NOT EDIT THIS FILE DIRECTLY.

内容如下:

```
# yarn lockfile v1
abbrev@1, abbrev@1.0.x:
    version "1.0.9"
    resolved https://registry.yarnpkg.com/abbrev/-/abbrev-1.0.9.tgz#91b4792588a7738c25f35dd6f63752a2f8776135

accepts@1.1.4:
    version "1.1.4"
    resolved https://registry.yarnpkg.com/accepts/-/accepts-1.1.4.tgz#d71c96f7d41d0feda2c38cd14e8a27c04158df4a
    dependencies:
        mime-types "~2.0.4"
        negotiator "0.4.9"
```

yarn - FAQ

1、不支持*

不能指定版本为*,需要改成 latest

- 2、不支持本地 module,不支持除了 npm registry 以外的其他安装方式
- 3、和 cnpm、pnpm 和 npminstall

宁 js 提到 npminstall cnpm 采用 link 的方式

- 3, yarn add/remove
- 4、采用 deterministic 算法来确保无论安装顺序如何,结果一致。
- 5、yarn run 不完全达到 npm run 效果

一些工具编写的收获

如下几点:

获取当前运行环境Node.js的版本号: var currentNodeVersion = process.versions.node; process.version

如何设置当前运行环境Node.js的版本大于某个版本: Package.json设置 engine: "node": ">=4.0.0" 获取: require('../package.json').engines.node

```
在目录下面通过脚手架写入模板文件之前要check:
function isSafeToCreateProjectIn(root) {
 var validFiles = [ '.DS_Store', 'Thumbs.db', '.git', '.gitignore',
  '.idea', 'README.md', 'LICENSE', 'web.iml'
 return fs.readdirSync(root)
  .every(function(file) {
   return validFiles.indexOf(file) >= 0;
  });
```

命令行工具包必备之: commander

检测项目创建的名称是否合法: validate-npm-package-name

命令行打印一些错误日志: var chalk = require('chalk')

命令行交互式循环: Inquirer

输出当前工具的版本: require('../package').version

如何获取当前 git 配置的用户:

require('child_process').execSync('git config --get user.name') require('child_process').execSync('git config --get user. email')

获取 npm 的版本:

require('child_process').execSync('npm --version').toString()

模板引擎哪个好?

我们推荐 consolidate,支持市面上基本所有的模板引擎

监控某个端口是否被占用:

react-scripts 里面有 detect-port

如何判断是否连网:

dns.resolve('registry.yarnpkg.com', function(err) {})

测试框架选哪个(vue.js用):

Nightwatch –

an easy to use Node.js based End-to-End (E2E) testing solution for browser based apps and websites.

It uses the powerful W3C WebDriver API to perform commands and assertions on DOM elements

执行脚本:

推荐cross-env:

cross-env NODE_ENV=production webpack --progress --hide-modules

Thanks for all

感谢在场的小伙伴们 感谢尤大大 感谢大会主办方