

## 1. 安装 scratch-vm [<https://github.com/llk/scratch-vm>]

To install as a dependency for your own application:

```
npm install scratch-vm
```

这个时候出现一个错误”

```
bibaodi@bibaodi-ThinkPad-Edge-E430:~/demo$ npm install scratch-vm

/home/bibaodi/demo

└─ scratch-vm@0.1.0-prerelease.1509598095-prerelease.1509598108

npm WARN enoent ENOENT: no such file or directory, open '/home/bibaodi/demo/package.json'

npm WARN demo No description

npm WARN demo No repository field.

npm WARN demo No README data

npm WARN demo No license field.

"
```

To set up a development environment to edit scratch-vm yourself:

```
git clone https://github.com/LLK/scratch-vm.git
cd scratch-vm
npm install
```

安装记录详见附件 1

## 2. 按照要求, 去[<https://github.com/LLK/scratch-gui/wiki/Getting-Started>]进行 gui 的安装。

安装 brew [sudo apt install linuxbrew-wrapper] 用于安装 node.js [brew install node]

## 3. 获取 gui 的 git 克隆代码[<https://github.com/LLK/scratch-gui>]

后面直接按照这个步骤执行:

1. `git remote add upstream https://github.com/LLK/scratch-gui.git`
2. `git config branch.develop.remote upstream` (develop will be where you pull in changes from the official repo)
3. `npm install -g dependencies` 斜体字是说明, 不用执行, 这个步骤耗时较长因为会下载所有的 JS 依赖模块代码
4. `npm start` - starts local server which is hot reloaded
5. Open `http://localhost:8601`

bug1: Downloading [https://chromedriver.storage.googleapis.com/2.33/chromedriver\\_linux64.zip](https://chromedriver.storage.googleapis.com/2.33/chromedriver_linux64.zip)

Saving to /tmp/chromedriver/chromedriver\_linux64.zip

ChromeDriver installation failed Error with http(s) request: Error: read ECONNRESET

bug1 解决方法: `npm install chromedriver`  
`--chromedriver_cdnurl=http://cdn.npm.taobao.org/dist/chromedriver`

解决后的打印信息见 附录四。

## 4. 访问 `http://localhost:8601` 就得到啦



## 附录一: `npm install scratch-vm`

```
> scratch-vm@0.1.0 prepublish /home/bibaodi/demo/scratch-vm
> in-publish && npm run build || not-in-publish
```

```

scratch-vm@0.1.0 /home/bibaodi/demo/scratch-vm
├── adm-zip@0.4.7
├── babel-core@6.26.0
│   ├── babel-code-frame@6.26.0
│   │   ├── chalk@1.1.3
│   │   │   ├── ansi-styles@2.2.1
│   │   │   ├── has-ansi@2.0.0
│   │   │   └── supports-color@2.0.0
│   │   └── js-tokens@3.0.2
│   ├── babel-generator@6.26.0
│   │   ├── detect-indent@4.0.0
│   │   ├── repeating@2.0.1
│   │   └── is-finite@1.0.2
│   ├── jscesc@1.3.0
│   ├── trim-right@1.0.1
│   ├── babel-helpers@6.24.1
│   ├── babel-messages@6.23.0
│   ├── babel-register@6.26.0
│   ├── core-js@2.5.1
│   ├── home-or-tmp@2.0.0
│   ├── os-tmpdir@1.0.2
│   ├── babel-runtime@6.26.0
│   │   └── regenerator-runtime@0.11.0
│   ├── babel-template@6.26.0
│   ├── babel-traverse@6.26.0
│   │   ├── invariant@2.2.2
│   │   └── loose-envify@1.3.1
│   ├── babel-types@6.26.0
│   │   ├── to-fast-properties@1.0.3
│   │   └── babylon@6.18.0
│   ├── convert-source-map@1.5.0
│   ├── debug@2.6.9
│   │   └── ms@2.0.0
│   ├── json5@0.5.1
│   ├── lodash@4.17.4
│   ├── minimatch@3.0.4
│   │   ├── brace-expansion@1.1.8
│   │   │   ├── balanced-match@1.0.0
│   │   │   └── concat-map@0.0.1
│   │   └── path-is-absolute@1.0.1
│   ├── private@0.1.8
│   ├── slash@1.0.0
│   └── source-map@0.5.7
├── babel-eslint@7.2.3
├── babel-loader@7.1.2
│   ├── find-cache-dir@1.0.0
│   │   ├── commondir@1.0.1
│   │   ├── make-dir@1.1.0
│   │   ├── pkg-dir@2.0.0
│   │   └── find-up@2.1.0
│   │       ├── locate-path@2.0.0
│   │       │   ├── p-locate@2.0.0
│   │       │   └── p-limit@1.1.0
│   │       └── path-exists@3.0.0
│   ├── loader-utils@1.1.0
│   ├── big.js@3.2.0
│   ├── emojis-list@2.1.0
│   ├── mkdirp@0.5.1
│   └── minimist@0.0.8
├── babel-plugin-check-es2015@6.24.1
├── babel-plugin-transform-es2015-constants@6.22.0
├── babel-plugin-transform-es2015-arrow-functions@6.22.0
├── babel-plugin-transform-es2015-block-scoped-functions@6.22.0
├── babel-plugin-transform-es2015-block-scoping@6.26.0
├── babel-plugin-transform-es2015-classes@6.24.1
│   ├── babel-helper-define-map@6.26.0
│   ├── babel-helper-function-name@6.24.1
│   ├── babel-helper-optimise-call-expression@6.24.1
│   └── babel-helper-replace-supers@6.24.1
├── babel-plugin-transform-es2015-computed-properties@6.24.1
├── babel-plugin-transform-es2015-destructuring@6.23.0
├── babel-plugin-transform-es2015-duplicate-keys@6.24.1
├── babel-plugin-transform-es2015-modules@6.24.1
├── babel-plugin-transform-es2015-for-of@6.23.0
├── babel-plugin-transform-es2015-function-name@6.24.1
├── babel-plugin-transform-es2015-literals@6.22.0
├── babel-plugin-transform-es2015-modules-amd@6.24.1
├── babel-plugin-transform-es2015-modules-commonjs@6.26.0
│   ├── babel-plugin-transform-strict-mode@6.24.1
│   ├── babel-plugin-transform-es2015-modules-systemjs@6.24.1
│   └── babel-helper-hoist-variables@6.24.1
├── babel-plugin-transform-es2015-modules-umd@6.24.1
├── babel-plugin-transform-es2015-object-super@6.24.1
├── babel-plugin-transform-es2015-parameters@6.24.1
│   ├── babel-helper-call-delegate@6.24.1
│   ├── babel-helper-get-function-arity@6.24.1
│   └── babel-plugin-transform-es2015-shorthand-properties@6.24.1
├── babel-plugin-transform-es2015-spread@6.22.0

```

- babel-plugin-transform-es2015-sticky-regex@6.24.1
  - babel-helper-regex@6.26.0
- babel-plugin-transform-es2015-template-literals@6.22.0
- babel-plugin-transform-es2015-typeof-symbol@6.23.0
- babel-plugin-transform-es2015-unicode-regex@6.24.1
  - regexpu-core@2.0.0
  - regenerate@1.3.3
  - regjsugen@0.2.0
  - regjsparser@0.1.5
  - jsesc@0.5.0
- babel-plugin-transform-regenerator@6.26.0
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- copy-webpack-plugin@4.0.1
- bluebird@2.11.0
- fs-extra@0.26.7
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- jsonfile@2.4.0
- klaw@1.3.1
- glob@6.0.4
  - inflight@1.0.6
  - wrappy@1.0.2
  - once@1.4.0
- is-glob@3.1.0
- is-extglob@2.1.1
- loader-utils@0.2.17
- node-dir@0.1.17
- escape-html@1.0.3
- eslint@4.10.0
- ajv@5.3.0
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- chalk@2.3.0
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- debug@3.1.0
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- sprintf-js@1.0.3

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- └─ levn@0.3.0
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- └─ ajv-keywords@2.1.1
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- └─ supports-color@4.5.0
- └─ slice-ansi@1.0.0
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- └─ eslint-plugin-react@7.4.0
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- └─ array-uniq@1.0.3
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- └─ mimeparse@0.1.4
- └─ qs@1.2.2
- └─ url2@0.0.0
- └─ rimraf@2.6.2
- └─ glob@7.1.2
- └─ got@5.7.1
- └─ create-error-class@3.0.2
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- └─ is-retry-allowed@1.1.0
- └─ is-stream@1.1.0
- └─ lowercase-keys@1.0.0
- └─ node-status-codes@1.0.0
- └─ object-assign@4.1.1
- └─ parse-json@2.2.0
- └─ error-ex@1.3.1
- └─ is-arrayish@0.2.1
- └─ pinkie-promise@2.0.1
- └─ pinkie@2.0.4
- └─ read-all-stream@3.1.0
- └─ readable-stream@2.3.3
- └─ core-util-is@1.0.2
- └─ process-nextick-args@1.0.7
- └─ safe-buffer@5.1.1
- └─ string\_decoder@1.0.3
- └─ util-deprecate@1.0.2
- └─ timed-out@3.1.3
- └─ unzip-response@1.0.2
- └─ url-parse-lax@1.0.0
- └─ prepend-http@1.0.4
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- └─ domutils@1.6.2
- └─ dom-serializer@0.1.0
- └─ domelementtype@1.1.3
- └─ entities@1.1.1
- └─ inherits@2.0.3
- └─ immutable@3.8.1
- └─ in-publish@2.0.0
- └─ json@9.0.6
- └─ lodash@4.17.4
- └─ lodash.defaultsdeep@4.6.0
- └─ minilog@3.1.0
- └─ microee@0.0.6
- └─ promise@7.1.1
- └─ asap@2.0.6

- scratch-audio@0.1.0-prerelease.1503425772
- scratch-blocks@0.1.0-prerelease.1509562288
- scratch-render@0.1.0-prerelease.1507840503
- scratch-storage@0.2.1
- script-loader@0.7.0
  - raw-loader@0.5.1
- socket.io-client@1.7.3
  - backo2@1.0.2
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  - component-emitter@1.2.1
  - debug@2.3.3
    - ms@0.7.2
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    - component-inherit@0.0.3
    - debug@2.3.3
      - ms@0.7.2
    - engine.io-parser@1.3.2
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      - arraybuffer.slice@0.0.6
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    - parsejson@0.0.3
    - parseqs@0.0.5
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    - ultron@1.0.2
    - xmlhttprequest-ssl@1.5.3
    - yeast@0.1.2
  - has-binary@0.1.7
    - isarray@0.0.1
  - indexOf@0.0.1
  - object-component@0.0.3
  - parseuri@0.0.5
    - better-assert@1.0.2
    - callsite@1.0.0
  - socket.io-parser@2.3.1
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    - json3@3.3.2
    - to-array@0.1.4
  - stats.js@0.17.0
  - tap@10.7.2
    - bind-obj-methods@1.0.0
    - bluebird@3.5.1
    - clean-yaml-object@0.1.0
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      - esprima@2.7.3
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      - log-driver@1.2.5
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        - aws4@1.6.0
        - caseless@0.11.0
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            - json-schema@0.2.3
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          - uuid@3.1.0
        - foreground-child@1.5.6
        - cross-spawn@4.0.2

- fs-exists-cached@1.0.0
- function-loop@1.0.1
- glob@7.1.2
- isexe@2.0.0
- nyc@11.3.0
  - archy@1.0.0
  - arrify@1.0.1
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  - debug-log@1.0.1
  - default-require-extensions@1.0.0
    - strip-bom@2.0.0
      - is-utf8@0.2.1
  - find-cache-dir@0.1.1
    - commandir@1.0.1
    - pkg-dir@1.0.0
      - find-up@1.1.2
        - path-exists@2.1.0
        - pinkie-promise@2.0.1
          - pinkie@2.0.4
  - find-up@2.1.0
    - locate-path@2.0.0
      - p-locate@2.0.0
        - p-limit@1.1.0
      - path-exists@3.0.0
  - foreground-child@1.5.6
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    - lru-cache@4.1.1
    - pseudomap@1.0.2
    - yallist@2.1.2
- glob@7.1.2
  - fs.realpath@1.0.0
  - inflight@1.0.6
  - wrappy@1.0.2
  - inherits@2.0.3
  - minimatch@3.0.4
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      - concat-map@0.0.1
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  - path-is-absolute@1.0.1
- istanbul-lib-coverage@1.1.1
- istanbul-lib-hook@1.1.0
- append-transform@0.4.0
- istanbul-lib-instrument@1.9.1
  - babel-generator@6.26.0
  - babel-messages@6.23.0
  - babel-runtime@6.26.0
  - core-js@2.5.1
  - regenerator-runtime@0.11.0
  - detect-indent@4.0.0
  - repeating@2.0.1
    - is-finite@1.0.2
  - jsesc@1.3.0
  - trim-right@1.0.1
- babel-template@6.26.0
- babel-traverse@6.26.0
  - babel-code-frame@6.26.0
    - chalk@1.1.3
      - ansi-styles@2.2.1
      - escape-string-regexp@1.0.5
      - has-ansi@2.0.0
      - supports-color@2.0.0
    - js-tokens@3.0.2
  - debug@2.6.9
  - globals@9.18.0
  - invariant@2.2.2
    - loose-envify@1.3.1
  - babel-types@6.26.0
  - esutils@2.0.2
  - to-fast-properties@1.0.3
- babylon@6.18.0
- semver@5.4.1

- istanbul-lib-report@1.1.2
- path-parse@1.0.5
- supports-color@3.2.3
  - has-flag@1.0.0
- istanbul-lib-source-maps@1.2.2
- debug@3.1.0
- ms@2.0.0
- source-map@0.5.7
- istanbul-reports@1.1.3
- handlebars@4.0.11
- async@1.5.2
- optimist@0.6.1
- wordwrap@0.0.3
- source-map@0.4.4
- amdefine@1.0.1
- uglify-js@2.8.29
- uglify-to-browserify@1.0.2
- yargs@3.10.0
  - camelcase@1.2.1
  - cliui@2.1.0
    - center-align@0.1.3
      - align-text@0.1.4
        - longest@1.0.1
      - lazy-cache@1.0.4
    - right-align@0.1.3
    - wordwrap@0.0.2
    - window-size@0.1.0
- md5-hex@1.3.0
- md5-o-matic@0.1.1
- merge-source-map@1.0.4

- micromatch@2.3.11
  - arr-diff@2.0.0
  - arr-flatten@1.1.0
  - array-unique@0.2.1
  - braces@1.8.5
    - expand-range@1.8.2
      - fill-range@2.2.3
        - is-number@2.1.0
        - isobject@2.1.0
        - isarray@1.0.0
        - randomatic@1.1.7
          - is-number@3.0.0
          - kind-of@3.2.2
          - kind-of@4.0.0
        - repeat-string@1.6.1
    - preserve@0.2.0
    - repeat-element@1.1.2
  - expand-brackets@0.1.5
    - is-posix-bracket@0.1.1
  - extglob@0.3.2
  - filename-regex@2.0.1
  - is-extglob@1.0.0
  - is-glob@2.0.1
  - kind-of@3.2.2
    - is-buffer@1.1.5
  - normalize-path@2.1.1
  - remove-trailing-separator@1.1.0
  - object.omit@2.0.1
    - for-own@0.1.5
      - for-in@1.0.2
    - is-extendable@0.1.1
  - parse-glob@3.0.4
    - glob-base@0.3.0
    - glob-parent@2.0.0
    - is-dotfile@1.0.3
  - regex-cache@0.4.4
    - is-equal-shallow@0.1.3
    - is-primitive@2.0.0
- mkdirp@0.5.1
- minimist@0.0.8
- resolve-from@2.0.0
- rimraf@2.6.2
- signal-exit@3.0.2
- spawn-wrap@1.3.8
  - os-homedir@1.0.2
- test-exclude@4.1.1
  - object-assign@4.1.1
  - read-pkg-up@1.0.1
    - find-up@1.1.2
    - read-pkg@1.1.0
      - load-json-file@1.1.0
      - parse-json@2.2.0
        - error-ex@1.3.1
        - is-arrayish@0.2.1
      - pify@2.3.0
    - normalize-package-data@2.4.0
    - hosted-git-info@2.5.0
    - is-builtin-module@1.0.0
    - builtin-modules@1.1.1
    - validate-npm-package-license@3.0.1
      - spdx-correct@1.0.2
      - spdx-license-ids@1.2.2
      - spdx-expression-parse@1.0.4
    - path-type@1.1.0
  - require-main-filename@1.0.1
- yargs@10.0.3
  - cliui@3.2.0
    - string-width@1.0.2
    - code-point-at@1.1.0
    - is-fullwidth-code-point@1.0.0
    - number-is-nan@1.0.1
  - strip-ansi@3.0.1
    - ansi-regex@2.1.1
  - wrap-ansi@2.1.0
    - string-width@1.0.2
- decamelize@1.2.0
- get-caller-file@1.0.2
- os-locale@2.1.0
  - execa@0.7.0
    - cross-spawn@5.1.0
      - shebang-command@1.2.0
      - shebang-regex@1.0.0
  - get-stream@3.0.0
  - is-stream@1.1.0
  - npm-run-path@2.0.2
    - path-key@2.0.1
  - p-finally@1.0.0
  - strip-eof@1.0.0
  - lcid@1.0.0
  - invert-kv@1.0.0
  - mem@1.1.0
  - mimic-fn@1.1.0
- require-directory@2.1.1
- set-blocking@2.0.0
- string-width@2.1.1
  - is-fullwidth-code-point@2.0.0
  - strip-ansi@4.0.0
  - ansi-regex@3.0.0
- which-module@2.0.0
- y18n@3.2.1

- yargs-parser@8.0.0
- camelcase@4.1.0
- opener@1.4.3
- os-homedir@1.0.2
- own-or@1.0.0
- own-or-env@1.0.0
- signal-exit@3.0.2



- source-map-support@0.4.18
- stack-utils@1.0.1
- tap-mocha-reporter@3.0.6
  - diff@1.4.0
  - glob@7.1.2
  - unicode-length@1.0.3
- tap-parser@5.4.0
  - events-to-array@1.1.2
- tmatch@3.1.0
- trivial-deferred@1.0.1
- tsame@1.1.2
- yapool@1.0.0
- tiny-worker@2.1.1
- webpack@2.7.0
- acorn@5.2.1
- acorn-dynamic-import@2.0.2
- acorn@4.0.13
- ajv@4.11.8
- ajv-keywords@1.5.1
- enhanced-resolve@3.4.1
- interpret@1.0.4
- json-loader@0.5.7
- loader-runner@2.3.0
- loader-utils@0.2.17
- memory-fs@0.4.1
  - errno@0.1.4
  - pr@0.0.0
- node-libs-browser@2.0.0
- assert@1.4.1
- browserify-zlib@0.1.4
- pako@0.2.9
- buffer@4.9.1
- base64-js@1.2.1
- ieee754@1.1.8
- console-browserify@1.1.0
- date-now@0.1.4
- constants-browserify@1.0.0
- crypto-browserify@3.11.1
  - browserify-cipher@1.0.0
    - browserify-aes@1.1.1
    - buffer-xor@1.0.3
  - browserify-des@1.0.0
    - des.js@1.0.0
  - evp\_bytestokey@1.0.3
  - md5.js@1.3.4
  - hash-base@3.0.4
- browserify-sign@4.0.4
  - bn.js@4.11.8
  - browserify-rsa@4.0.1
  - elliptic@6.4.0
    - brorand@1.1.0
    - hash.js@1.1.3
    - hmac-drbg@1.0.1
  - minimalistic-crypto-utils@1.0.1
- parse-asn1@5.1.0
  - asn1.js@4.9.2
- create-ecdh@4.0.0
- create-hash@1.1.3
  - cipher-base@1.0.4
  - ripemd160@2.0.1
  - hash-base@2.0.2
  - sha.js@2.4.9
- create-hmac@1.1.6
- diffie-hellman@5.0.2
- miller-rabin@4.0.1
- pbkdf2@3.0.14
- public-encrypt@4.0.0
- randombytes@2.0.5

- domain-browser@1.1.7
- events@1.1.1
- https-browserify@0.0.1
- os-browserify@0.2.1
- path-browserify@0.0.0
- process@0.11.10
- punycode@1.4.1
- querystring-es3@0.2.1
- stream-browserify@2.0.1
- stream-http@2.7.2
- builtin-status-codes@3.0.0
- to-arraybuffer@1.0.1
- xtend@4.0.1
- string\_decoder@0.10.31
- timers-browserify@2.0.4
- setimmediate@1.0.5
- tty-browserify@0.0.0
- url@0.11.0
- punycode@1.3.2
- querystring@0.2.0
- util@0.10.3
- inherits@2.0.1
- vm-browserify@0.0.4
- supports-color@3.2.3
- has-flag@1.0.0
- tapable@0.2.8
- uglify-js@2.8.29
- uglify-to-browserify@1.0.2
- yargs@3.10.0
- camelcase@1.2.1
- cliui@2.1.0
  - center-align@0.1.3
    - align-text@0.1.4
      - longest@1.0.1
    - repeat-string@1.6.1
  - lazy-cache@1.0.4
  - right-align@0.1.3
  - wordwrap@0.0.2
  - window-size@0.1.0

```

watchpack@1.4.0
webpack-sources@1.0.1
source-list-map@2.0.0
yargs@6.6.0
  camelcase@3.0.0
  cliui@3.2.0
    wrap-ansi@2.1.0
      string-width@1.0.2
        is-fullwidth-code-point@1.0.0
  decamelize@1.2.0
  get-caller-file@1.0.2
  os-locale@1.4.0
    lcid@1.0.0
      invert-kv@1.0.0
  read-pkg-up@1.0.1
    find-up@1.1.2
      path-exists@2.1.0
  read-pkg@1.1.0
    load-json-file@1.1.0
      pify@2.3.0
      strip-bom@2.0.0
        is-utf8@0.2.1
      path-type@1.1.0
        pify@2.3.0
  require-directory@2.1.1
  require-main-filename@1.0.1
  set-blocking@2.0.0
  string-width@1.0.2
    code-point-at@1.1.0
    is-fullwidth-code-point@1.0.0
    number-is-nan@1.0.1
  which-module@1.0.0
  y18n@3.2.1
  yargs-parser@4.2.1
    camelcase@3.0.0
webpack-dev-server@2.9.4
  ansi-html@0.0.7
  array-includes@3.0.3
  define-properties@1.1.2
  foreach@2.0.5
  object-keys@1.0.11
  es-abstract@1.9.0
    es-to-primitive@1.1.1
      is-date-object@1.0.1
      is-symbol@1.0.1
      is-callable@1.1.3
      is-regex@1.0.4
  bonjour@3.5.0
  array-flatten@2.1.1
  deep-equal@1.0.1
  dns-equal@1.0.0
  dns-txt@2.0.2
  buffer-indexof@1.1.1
  multicast-dns@6.1.1
  dns-packet@1.2.2
  thunky@0.1.0
  multicast-dns-service-types@1.1.0
chokidar@1.7.0
  anymatch@1.3.2
    normalize-path@2.1.1
      remove-trailing-separator@1.1.0
  async-each@1.0.1
  glob-parent@2.0.0
    is-glob@2.0.1
      is-extglob@1.0.0
  is-binary-path@1.0.1
  binary-extensions@1.10.0
  is-glob@2.0.1
    is-extglob@1.0.0
  readdirp@2.1.0
    set-immediate-shim@1.0.1
  compression@1.7.1
  accepts@1.3.4
  negotiator@0.6.1
  bytes@3.0.0
  compressible@2.0.12
  mime-db@1.30.0
  on-headers@1.0.1
  vary@1.1.2
  connect-history-api-fallback@1.4.0
  debug@3.1.0
  del@3.0.0
    globby@6.1.0
      glob@7.1.2
        pify@2.3.0
      is-path-cwd@1.0.0
      is-path-in-cwd@1.0.0
        is-path-inside@1.0.0
      p-map@1.2.0
        pify@3.0.0
  express@4.16.2
    array-flatten@1.1.1
    body-parser@1.18.2
      qs@6.5.1
      raw-body@2.3.2
    content-disposition@0.5.2
    content-type@1.0.4
    cookie@0.3.1
    cookie-signature@1.0.6
    depd@1.1.1
    encodeurl@1.0.1
    etag@1.8.1
    finalhandler@1.1.0
      unpipe@1.0.0
    fresh@0.5.2
    merge-descriptors@1.0.1
    methods@1.1.2

```

- on-finished@2.3.0
- ee-first@1.1.1
- parseurl@1.3.2
- path-to-regexp@0.1.7
- proxy-addr@2.0.2
- forwarded@0.1.2
- ipaddr.js@1.5.2
- qs@6.5.1
- range-parser@1.2.0
- send@0.16.1
- destroy@1.0.4
- serve-static@1.13.1
- setprototypeof@1.1.0
- statuses@1.3.1
- type-is@1.6.15
- media-typer@0.3.0
- utils-merge@1.0.1
- html-entities@1.2.1
- http-proxy-middleware@0.17.4
- http-proxy@1.16.2
- eventemitter3@1.2.0
- requires-port@1.0.0
- micromatch@2.3.11
- arr-diff@2.0.0
- arr-flatten@1.1.0
- array-unique@0.2.1
- braces@1.8.5
- expand-range@1.8.2
- fill-range@2.2.3
- is-number@2.1.0
- isobject@2.1.0
- randomatic@1.1.7
- is-number@3.0.0
- kind-of@3.2.2
- kind-of@4.0.0
- preserve@0.2.0
- repeat-element@1.1.2
- expand-brackets@0.1.5
- is-posix-bracket@0.1.1
- extglob@0.3.2
- is-extglob@1.0.0
- filename-regexp@2.0.1
- is-extglob@1.0.0
- is-glob@2.0.1
- kind-of@3.2.2
- is-buffer@1.1.6
- object.omit@2.0.1
- for-own@0.1.5
- for-in@1.0.2
- is-extendable@0.1.1
- parse-glob@3.0.4
- glob-base@0.3.0
- is-glob@2.0.1
- is-extglob@1.0.0
- is-dotfile@1.0.3
- is-extglob@1.0.0
- is-glob@2.0.1
- regex-cache@0.4.4
- is-equal-shallow@0.1.3
- is-primitive@2.0.0
- import-local@0.1.1
- resolve-cwd@2.0.0
- resolve-from@3.0.0
- internal-ip@1.2.0
- meow@3.7.0
- camelcase-keys@2.1.0
- camelcase@2.1.1
- loud-rejection@1.6.0
- currently-unhandled@0.4.1
- array-find-index@1.0.2
- map-obj@1.0.1
- minimist@1.2.0
- normalize-package-data@2.4.0
- hosted-git-info@2.5.0
- is-builtin-module@1.0.0
- builtin-modules@1.1.1
- validate-npm-package-license@3.0.1
- spdx-correct@1.0.2
- spdx-license-ids@1.2.2
- spdx-expression-parse@1.0.4
- redent@1.0.0
- indent-string@2.1.0
- strip-indent@1.0.1
- get-stdin@4.0.1
- trim-newlines@1.0.0
- ip@1.1.5
- killable@1.0.0
- loglevel@1.5.1
- opn@5.1.0
- is-wsl@1.1.0
- portfinder@1.0.13
- async@1.5.2
- selfsigned@1.10.1
- node-forge@0.6.33
- serve-index@1.9.1
- batch@0.6.1
- http-errors@1.6.2
- setprototypeof@1.0.3
- mime-types@2.1.17
- sockjs@0.3.18
- faye-websocket@0.10.0
- websocket-driver@0.7.0
- http-parser-js@0.4.9
- websocket-extensions@0.1.2
- uuid@2.0.3
- sockjs-client@1.1.4
- eventsource@0.1.6

```
npm WARN optional Skipping failed optional dependency /chokidar/fsevents:
npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.1.2
bibaodi@bibaodi-ThinkPad-Edge-E430:~/demo/scratch-vm$
```

```
brew install node
==> This script will install:
/home/linuxbrew/.linuxbrew/bin/brew
/home/linuxbrew/.linuxbrew/share/doc/homebrew
/home/linuxbrew/.linuxbrew/share/man/man1/brew.1
/home/linuxbrew/.linuxbrew/share/zsh/site-functions/_brew
/home/linuxbrew/.linuxbrew/etc/bash_completion.d/brew
/home/bibaodi/.cache/Homebrew/
/home/linuxbrew/.linuxbrew/Homebrew
==> The following new directories will be created:
/home/linuxbrew/.linuxbrew/Cellar
/home/linuxbrew/.linuxbrew/bin
/home/linuxbrew/.linuxbrew/etc
/home/linuxbrew/.linuxbrew/include
/home/linuxbrew/.linuxbrew/lib
/home/linuxbrew/.linuxbrew/opt
/home/linuxbrew/.linuxbrew/sbin
/home/linuxbrew/.linuxbrew/share
/home/linuxbrew/.linuxbrew/share/zsh
/home/linuxbrew/.linuxbrew/share/zsh/site-functions
/home/linuxbrew/.linuxbrew/var
/home/linuxbrew/.linuxbrew/Homebrew
```

```
* [new branch] master -> origin/master
* [new tag] 1.0.0 -> 1.0.0
* [new tag] 1.0.1 -> 1.0.1
* [new tag] 1.0.2 -> 1.0.2
* [new tag] 1.0.3 -> 1.0.3
* [new tag] 1.0.4 -> 1.0.4
* [new tag] 1.0.5 -> 1.0.5
* [new tag] 1.0.6 -> 1.0.6
* [new tag] 1.0.7 -> 1.0.7
* [new tag] 1.0.8 -> 1.0.8
* [new tag] 1.0.9 -> 1.0.9
* [new tag] 1.1.0 -> 1.1.0
* [new tag] 1.1.0.1 -> 1.1.0.1
* [new tag] 1.1.1 -> 1.1.1
* [new tag] 1.1.10 -> 1.1.10
* [new tag] 1.1.11 -> 1.1.11
* [new tag] 1.1.12 -> 1.1.12
* [new tag] 1.1.13 -> 1.1.13
* [new tag] 1.1.2 -> 1.1.2
* [new tag] 1.1.2.1 -> 1.1.2.1
* [new tag] 1.1.3 -> 1.1.3
```

```

* [new tag]      1.1.4      -> 1.1.4
* [new tag]      1.1.5      -> 1.1.5
* [new tag]      1.1.6      -> 1.1.6
* [new tag]      1.1.7      -> 1.1.7
* [new tag]      1.1.8      -> 1.1.8
* [new tag]      1.1.9      -> 1.1.9
* [new tag]      1.2.0      -> 1.2.0
* [new tag]      1.2.1      -> 1.2.1
* [new tag]      1.2.2      -> 1.2.2
* [new tag]      1.2.3      -> 1.2.3
* [new tag]      1.2.4      -> 1.2.4
* [new tag]      1.2.5      -> 1.2.5
* [new tag]      1.2.6      -> 1.2.6
* [new tag]      1.2.7      -> 1.2.7
* [new tag]      1.2.8      -> 1.2.8
* [new tag]      1.3.0      -> 1.3.0
* [new tag]      1.3.1      -> 1.3.1
* [new tag]      1.3.2      -> 1.3.2
* [new tag]      1.3.3      -> 1.3.3
* [new tag]      1.3.4      -> 1.3.4
* [new tag]      1.3.5      -> 1.3.5
* [new tag]      1.3.6      -> 1.3.6
HEAD is now at 095d01f tap.rb: Remove defunct tap Linuxbrew/dupes (#513)
==> Tapping homebrew/core
Cloning into '/home/linuxbrew/.linuxbrew/Homebrew/Library/Taps/homebrew/homebrew-core'...
remote: Counting objects: 4654, done.
remote: Compressing objects: 100% (4434/4434), done.
remote: Total 4654 (delta 38), reused 331 (delta 10), pack-reused 0
Receiving objects: 100% (4654/4654), 3.97 MiB | 3.41 MiB/s, done.
Resolving deltas: 100% (38/38), done.
Tapped 4424 formulae (4,699 files, 12.4MB)
Already up-to-date.
==> Installation successful!

==> Homebrew has enabled anonymous aggregate user behaviour analytics.
Read the analytics documentation (and how to opt-out) here:
  http://docs.brew.sh/Analytics.html

==> Next steps:
- Install the Linuxbrew dependencies if you have sudo access:
  Debian, Ubuntu, etc.
    sudo apt-get install build-essential
  Fedora, Red Hat, CentOS, etc.
    sudo yum groupinstall 'Development Tools'
See http://linuxbrew.sh/#dependencies for more information.
- Add Linuxbrew to your ~/.bash_profile by running
  echo 'export PATH="/home/linuxbrew/.linuxbrew/bin:$PATH"' >> ~/.bash_profile
  echo 'export MANPATH="/home/linuxbrew/.linuxbrew/share/man:$MANPATH"' >> ~/.bash_profile
  echo 'export INFOPATH="/home/linuxbrew/.linuxbrew/share/info:$INFOPATH"' >> ~/.bash_profile
- Add Linuxbrew to your PATH
  PATH="/home/linuxbrew/.linuxbrew/bin:$PATH"
- We recommend that you install GCC by running:
  brew install gcc
- Run `brew help` to get started
- Further documentation:
  http://docs.brew.sh
Warning: /home/linuxbrew/.linuxbrew/bin is not in your PATH.
/usr/bin/brew: 78: exec: /home/bibaodi/.linuxbrew/bin/brew: not found
bibaodi@bibaodi-ThinkPad-Edge-E430:~/demo/scratch-vm$

```

### 附录三: scratch-gui 依赖过程

```

npm install
npm WARN deprecated babel-preset-es2015@6.24.1: Thanks for using Babel: we recommend using babel-preset-env now: please read
babeljs.io/env to update!

```

```

> chromedriver@2.33.1 install /home/bibaodi/demo/scratch-gui/node_modules/chromedriver
> node install.js

```

```

Downloading https://chromedriver.storage.googleapis.com/2.33/chromedriver_linux64.zip
Saving to /tmp/chromedriver/chromedriver_linux64.zip

```

```

ChromeDriver installation failed Error with http(s) request: Error: read ECONNRESET
scratch-gui@0.1.0 /home/bibaodi/demo/scratch-gui

```

```

├─ autoprefixer@7.1.6
├─ browserslist@2.7.0
├─ electron-to-chromium@1.3.27
├─ caniuse-lite@1.0.30000757
├─ normalize-range@0.1.2
├─ num2fraction@1.2.2
├─ postcss@6.0.14
├─ source-map@0.6.1
├─ postcss-value-parser@3.3.0
├─ babel-cli@6.26.0
├─ babel-polyfill@6.26.0
├─ core-js@2.5.1
├─ regenerator-runtime@0.10.5
├─ babel-register@6.26.0
├─ home-or-tmp@2.0.0
├─ os-homedir@1.0.2
├─ source-map-support@0.4.18
├─ source-map@0.5.7
├─ babel-runtime@6.26.0
├─ regenerator-runtime@0.11.0
├─ chokidar@1.7.0
├─ anymatch@1.3.2
├─ normalize-path@2.1.1
├─ remove-trailing-separator@1.1.0
├─ async-each@1.0.1
├─ glob-parent@2.0.0
├─ inherits@2.0.3
├─ is-binary-path@1.0.1
├─ binary-extensions@1.10.0
├─ is-glob@2.0.1
├─ is-extglob@1.0.0
├─ readdirp@2.1.0
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- eslint-plugin-import@2.8.0
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- loud-rejection@1.6.0
- currently-unhandled@0.4.1
- array-find-index@1.0.2
- map-obj@1.0.1
- minimist@1.2.0
- read-pkg-up@1.0.1
- find-up@1.1.2
- path-exists@2.1.0



```

├── read-pkg@1.1.0
│   ├── load-json-file@1.1.0
│   │   ├── pify@2.3.0
│   │   └── strip-bom@2.0.0
│   └── path-type@1.1.0
├── redent@1.0.0
│   ├── indent-string@2.1.0
│   ├── strip-indent@1.0.1
│   ├── get-stdin@4.0.1
│   └── trim-newlines@1.0.0
├── ip@1.1.5
├── killable@1.0.0
├── loglevel@1.5.1
├── opn@5.1.0
│   └── is-wsl@1.1.0
├── portfinder@1.0.13
│   └── async@1.5.2
├── selfsigned@1.10.1
│   └── node-forge@0.6.33
├── serve-index@1.9.1
│   └── batch@0.6.1
├── http-errors@1.6.2
│   └── setprototypeof@1.0.3
├── mime-types@2.1.17
├── socksjs@0.3.18
│   ├── faye-websocket@0.10.0
│   ├── websocket-driver@0.7.0
│   ├── http-parser-js@0.4.9
│   └── websocket-extensions@0.1.2
├── uuid@2.0.3
├── socksjs-client@1.1.4
│   ├── eventsource@0.1.6
│   ├── original@1.0.0
│   ├── url-parse@1.0.5
│   └── querystringify@0.0.4
├── faye-websocket@0.11.1
├── json3@3.3.2
├── url-parse@1.2.0
├── querystringify@1.0.0
├── spdy@3.4.7
│   ├── handle-thing@1.2.5
│   ├── http-deceiver@1.2.7
│   ├── select-hose@2.0.0
│   ├── spdy-transport@2.0.20
│   ├── detect-node@2.0.3
│   ├── hpack.js@2.1.6
│   ├── obuf@1.1.1
│   ├── wbuf@1.7.2
│   └── minimalistic-assert@1.0.0
├── strip-ansi@3.0.1
├── ansi-regex@2.1.1
├── webpack-dev-middleware@1.12.0
├── time-stamp@2.0.0
├── yargs@6.6.0
│   ├── camelcase@3.0.0
│   ├── cliui@3.2.0
│   ├── os-locale@1.4.0
│   ├── read-pkg-up@1.0.1
│   ├── find-up@1.1.2
│   ├── path-exists@2.1.0
│   ├── read-pkg@1.1.0
│   │   ├── load-json-file@1.1.0
│   │   ├── pify@2.3.0
│   │   ├── strip-bom@2.0.0
│   │   ├── is-utf8@0.2.1
│   │   ├── path-type@1.1.0
│   │   └── pify@2.3.0
│   ├── string-width@1.0.2
│   ├── code-point-at@1.1.0
│   ├── is-fullwidth-code-point@1.0.0
│   ├── number-is-nan@1.0.1
│   ├── which-module@1.0.0
│   ├── yargs-parser@4.2.1
├── xhr@2.4.0
├── global@4.3.2
├── min-document@2.19.0
├── dom-walk@0.1.1
├── process@0.5.2
├── is-function@1.0.1
├── parse-headers@2.0.1
├── for-each@0.3.2
├── trim@0.0.1
└── xtend@4.0.1

```

```

npm WARN optional Skipping failed optional dependency /chokidar/fsevents:
npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.1.2
npm WARN optional Skipping failed optional dependency /sane/fsevents:
npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.1.2
npm ERR! Linux 4.13.0-16-generic
npm ERR! argv "/usr/bin/node" "/usr/bin/npm" "install"
npm ERR! node v6.11.4
npm ERR! npm v3.5.2
npm ERR! code ELIFECYCLE

npm ERR! chromedriver@2.33.1 install: `node install.js`
npm ERR! Exit status 1
npm ERR!
npm ERR! Failed at the chromedriver@2.33.1 install script 'node install.js'.
npm ERR! Make sure you have the latest version of node.js and npm installed.
npm ERR! If you do, this is most likely a problem with the chromedriver package,
npm ERR! not with npm itself.
npm ERR! Tell the author that this fails on your system:
npm ERR!     node install.js
npm ERR! You can get information on how to open an issue for this project with:
npm ERR!     npm bugs chromedriver
npm ERR! Or if that isn't available, you can get their info via:
npm ERR!     npm owner ls chromedriver

```

npm ERR! There is likely additional logging output above.

npm ERR! Please include the following file with any support request:

npm ERR! /home/bibaodi/demo/scratch-gui/npm-debug.log

bibaodi@bibaodi-ThinkPad-Edge-E430:~/demo/scratch-gui\$

bibaodi@bibaodi-ThinkPad-Edge-E430:~/demo/scratch-gui\$ npm install

> chromedriver@2.33.1 install /home/bibaodi/demo/scratch-gui/node\_modules/chromedriver

> node install.js

Downloading https://chromedriver.storage.googleapis.com/2.33/chromedriver\_linux64.zip

Saving to /tmp/chromedriver/chromedriver\_linux64.zip

附录四: 解决 chromedriver 下载失败问题

npm install chromedriver --chromedriver\_cdnurl=http://cdn.npm.taobao.org/dist/chromedriver

> chromedriver@2.33.1 install /home/bibaodi/demo/scratch-gui/node\_modules/chromedriver

> node install.js

Downloading http://cdn.npm.taobao.org/dist/chromedriver/2.33/chromedriver\_linux64.zip

Saving to /tmp/chromedriver/chromedriver\_linux64.zip

Received 803K...

Received 1585K...

Received 2367K...

Received 3161K...

Received 3943K...

Received 3995K total.

Extracting zip contents

Copying to target path /home/bibaodi/demo/scratch-gui/node\_modules/chromedriver/lib/chromedriver

Fixing file permissions

Done. ChromeDriver binary available at /home/bibaodi/demo/scratch-gui/node\_modules/chromedriver/lib/chromedriver/chromedriver

scratch-gui@0.1.0 /home/bibaodi/demo/scratch-gui

├─ chromedriver@2.33.1

│ └─ extract-zip@1.6.6

│ └─ mkdirp@0.5.0

│ └─ yauzl@2.4.1

│ └─ fd-slicer@1.0.1

│ └─ pend@1.2.0

└─ kew@0.7.0

npm WARN optional Skipping failed optional dependency /chokidar/fsevents:

npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.1.2

npm WARN optional Skipping failed optional dependency /sane/fsevents:

npm WARN notsup Not compatible with your operating system or architecture: fsevents@1.1.2

bibaodi@bibaodi-ThinkPad-Edge-E430:~/demo/scratch-gui\$