从零搭建一个 React & npm 组件库

为什么需要组件库?



Material design





npm 生态圈



Package.json

```
"name": "@tencent/now-display-bubble",
"version": "5.3.39",
"description": "NOW直播组件 点赞气泡",
"main": "lib/index.js",
"keywords": [
 "now",
 "展示组件"
"scripts": {
 "test": "mocha --compilers js:babel-core/register --require ./test/setup.js",
 "prepublish": "babel --presets es2015-loose, stage-0, react src -d lib",
 "build": "babel --presets es2015-loose, stage-0, react src -d lib && tnpm publish",
 "dev": "babel --presets es2015-loose, stage-0, react src -d lib -w"
"author": "adamhe",
"dependencies": {
 "react": "15.1.0",
 "react-dom": "15.0.2",
 "@tencent/eventname": "^5.3.39",
 "@tencent/device": "^5.3.39"
```

发布

npm publish

那组件库发布呢?

| babel-cli | babel-helper-define-map | |
|-------------------------------------|---|--|
| babel-code-frame | babel-helper-explode-assignable-ex | |
| babel-core | babel-helper-explode-class | |
| a babel-generator | babel-helper-fixtures | |
| babel-helper-bindify-decorators | babel-helper-function-name | |
| babel-helper-builder-binary-assign | babel-helper-get-function-arity babel-helper-hoist-variables | |
| babel-helper-builder-conditional-as | | |
| babel-helper-builder-react-jsx | babel-helper-optimise-call-expressi | |
| babel-helper-call-delegate | babel-helper-plugin-test-runner | |
| babel-helper-define-map | babel-helper-regex | |
| · | babel-helper-remap-async-to-gene | |
| babel-helper-explode-assignable-ex | | |

Babel

可能会遇到的问题

- 组件间的依赖
- 被依赖组件的更新, 引起的连锁反映
- 组件粒度化的发布
- 与版本管理工具的联动
- 开发调试

Lerna

https://lernajs.io/

What's Lerna



Lerna

A tool for managing JavaScript projects with multiple packages.



🗱 Slack 🕻 6/120

Follow Lerna on Twitter

Lerna 项目长什么样子

\$ lerna init

| 名称 | 修改日期 | 类型 |
|--------------|------------------|---------|
| git | 2016/11/30 11:46 | 文件夹 |
| packages | 2016/11/30 11:46 | 文件夹 |
| lerna.json | 2016/11/30 11:46 | JSON 文件 |
| package.json | 2016/11/30 11:46 | JSON 文件 |

组件库的发布

\$ lerna publish

```
PS E:\FE\lerna-demo> lerna publish

Lerna v2.0.0-beta.30

Current version: 0.0.0

Checking for updated packages...

1r-button

lr-dialog

Select a new version (currently 0.0.0) (Use arrow keys)

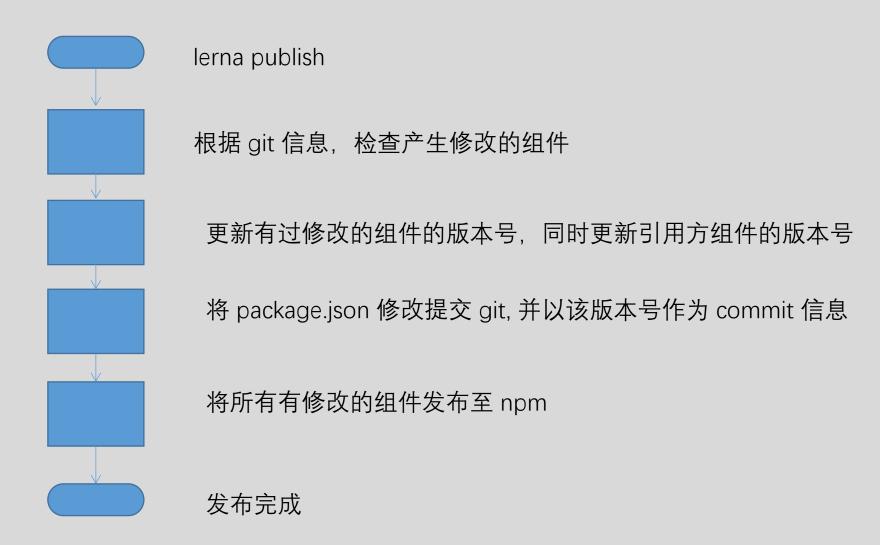
Patch (0.0.1)

Minor (0.1.0)

Major (1.0.0)

Custom
```

组件库的发布

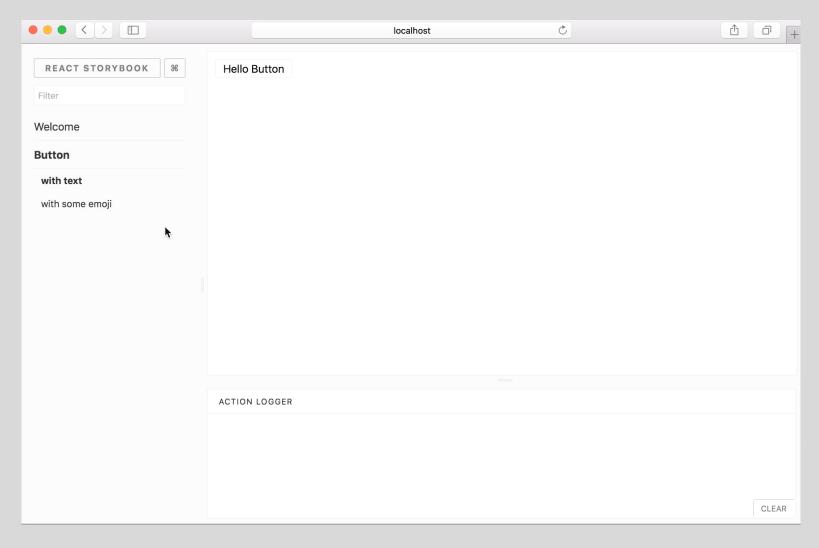


如何开发一个像 Ant-Design 这样 React 组件库呢?

Storybook

https://github.com/storybooks/react-storybook

Storybook



Storybook

- 1. 与 React 一致的开发体验
- 2. 独立的开发环境
- 3. 热重载
- 4. UI 测试环境
- 5. 文档生成

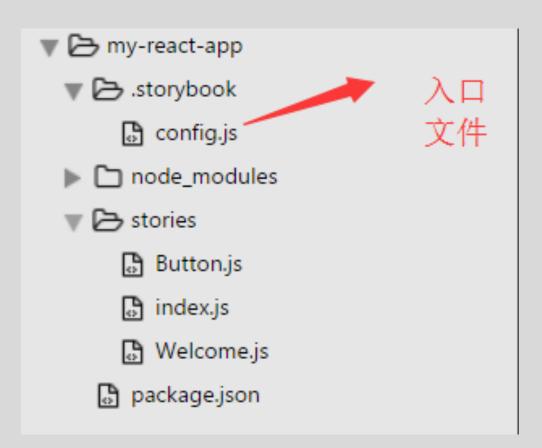
Storybook – 安装

npm i –g getstorybook

cd my-react-component

getstorybook

Storybook – 基础目录



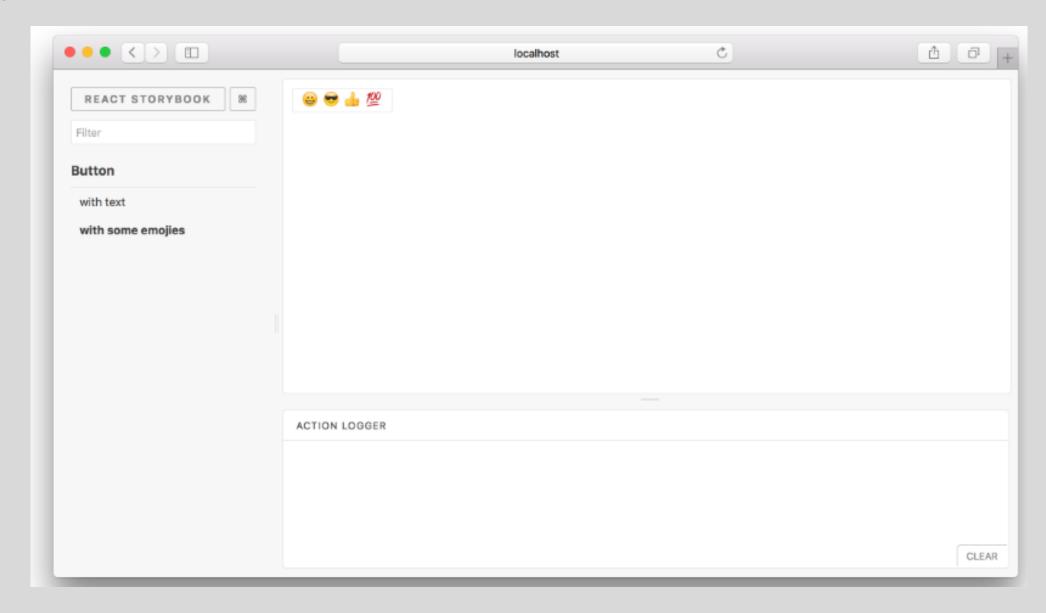
config.js

```
import { configure } from '@kadira/storybook';
function loadStories() {
  require('../stories');
}
configure(loadStories, module);
```

Storybook - 开始构建你的环境

```
import React from 'react';
import { storiesOf, action, linkTo } from '@kadira/storybook';
import Button from './Button';
import Welcome from './Welcome';
storiesOf('Welcome', module)
  .add('to Storybook', () => (
   <Welcome showApp={linkTo('Button')}/>
 ));
storiesOf('Button', module)
  .add('with text', () => (
    <Button onClick={action('clicked')}>Hello Button</Button>
  ))
  .add('with some emoji', () => (
   <Button onClick={action('clicked')}>(⊕) 🏰 🚾</Button>
```

Storybook - 开始构建你的环境



Lerna + StoryBook ?

组件库目录结构

```
---.storybook
      ---config.js
      ---webpack.config.js
|---lerna.json
---package.json
---packages
    ---component
        ---.npmignore
        ---assets
           |---index.scss
        |---lib
           |---index.js
        |---make
           |---button.stories.js
       |---package.json
        ---README.md
        ---src
           |---index.js
---README.md
```

组件库 - 多入口引用

config.js

```
import { configure } from '@kadira/storybook';
const req = require.context('../packages', true, /.stories.js$/)
function loadStories() {
 req.keys().forEach((filename) => req(filename))
configure(loadStories, module);
```

组件库-构建修改

.storybook/webpack.config.js

```
storybookBaseConfig.resolve.alias = {
    'react': path.join(__dirname, '../node_modules/react/dist/react-with-addons.js'
    'react-dom': path.join(__dirname, '../node_modules/react-dom/dist/react-dom/
}
```

组件库-构建修改

.storybook/webpack.config.js

```
storybookBaseConfig.module.loaders.splice(-1, 0,{
 test: /.scss$/,
 loaders: ["style", "css", "sass"]
 test: /\.(png\?.*|jpg\?.*|jpg|png)$/,
 loader: 'url-loader'
 test: /.(blob)/,
 loader: 'file-loader'
```

组件库 - 修改package.json

Package.json 配置

```
"scripts": {
    "test": "mocha --compilers js:babel-core/register --require ./test/setup.js",
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    "dev": "babel --presets es2015-loose,stage-0,react src -d lib -w"
},
```

组件库-发布

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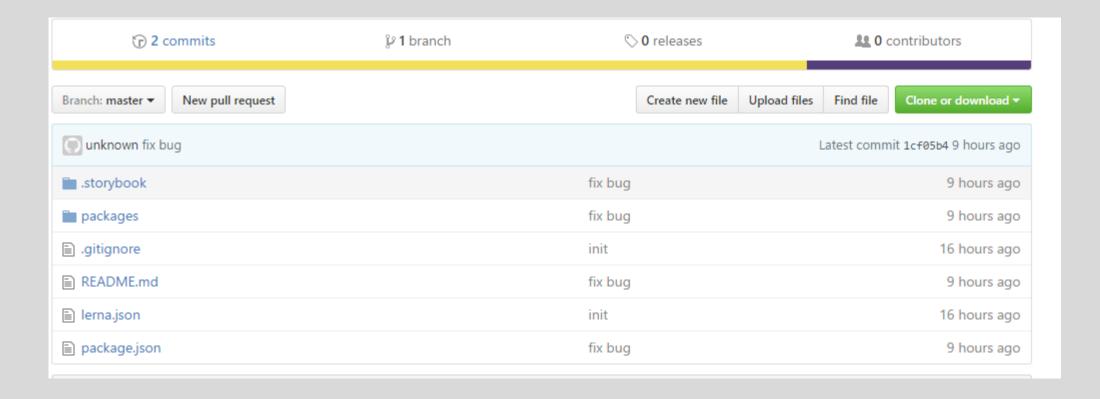
Patch (0.0.1)

Minor (0.1.0)

Major (1.0.0)

Custom
```

组件库 - demo



https://github.com/adamchuan/lerna-demo

组件库

- 1. 集中管理
- 2. 独立的测试环境
- 3. 一致的开发体验
- 4. 版本管理
- 5. 增量发布
- 6. 文档生成



Thx!

何方舟 Adamhe