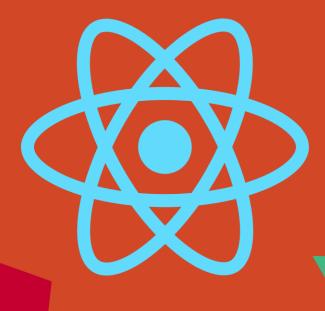
### WHAT IS JEST?

Jest is a JavaScript testing framework that focus on simplicity













## HOW TO USE JEST?

1 • yarn add --dev jest

• npm install --save-dev jest

2 {
 "scripts": {
 "test": "jest"
 }
 }

yarn test

npm run test



#### Jest Functionalities

- Testing asynchronous code
- Setup and Teardown

- Matchers expect(2+2).toBe(4);
- Mock functions
- Snapshop Testing

- toBe
- toEqual
- not.ToBe
- toBeNull
- ToBeDefine

- toBeTruthy
- toBeFalsy
- toMatch
- toContain

<a className="normal"
href="http://www.facebook.com"
onMouseEnter={[Function]}
onMouseLeave={[Function]} >
Facebook </a>

const tree = renderer.create(<Link page="http://www.facebook.com"> Facebook</Link>) .toJSON();
expect(tree).toMatchSnapshot();



# **STAKEHOLDERS**



### **STAKEHOLDERS**

Contributors

**Donation** 

c open collective

Contribuye de manera única o recurrente para ayudar a este colectivo.

Contribute

- Final Users
- Open-Source Community
- Facebook
- Dev Team
- Sponsors

Helping solving issues on Jest open github repository

Backer

Become a backer for \$3.00 per month and help us sustain our activities!

STARTS AT

\$3 USD / month

Contribute

Users giving money to the device team through donations or promoting to Backer role.

Sponsor

Become a sponsor for \$100.00 per month and help us sustain our activities!

STARTS AT

\$100 USD / month

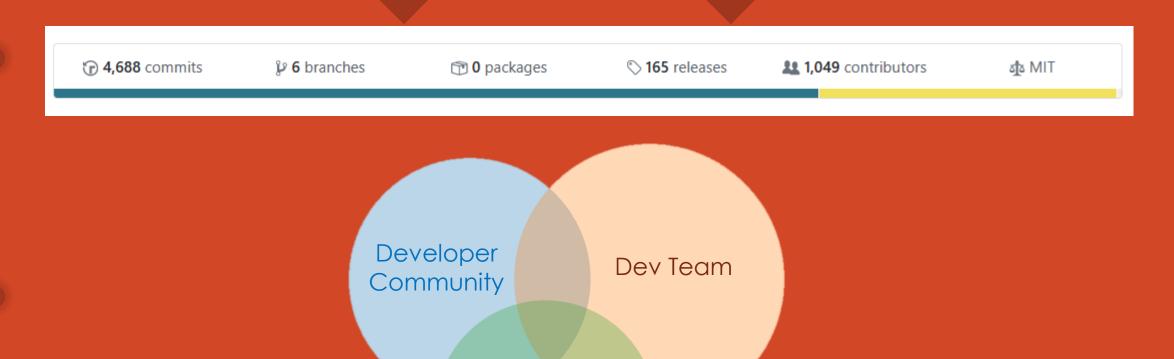
Contribute

3

Sponsors



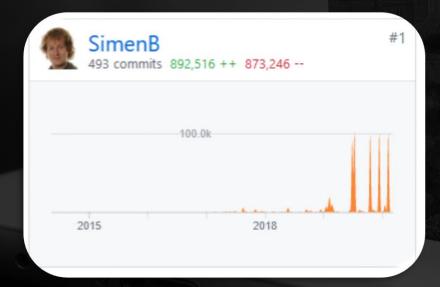
### Main Focus of Interest

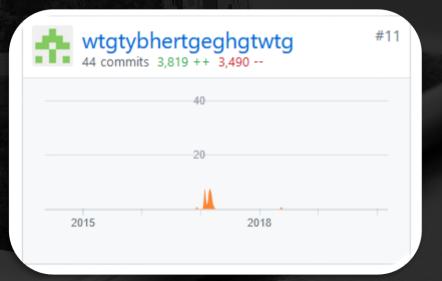


Money Contributions



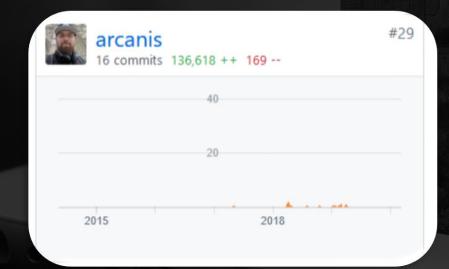
## ANYONE CAN CONTRIBUTE TO THE PROJECT







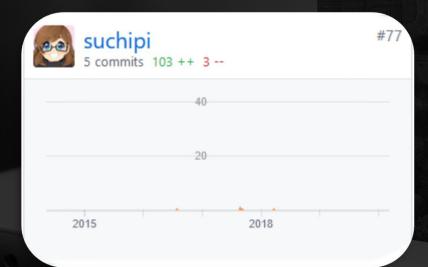
## ANYONE CAN CONTRIBUTE TO THE PROJECT

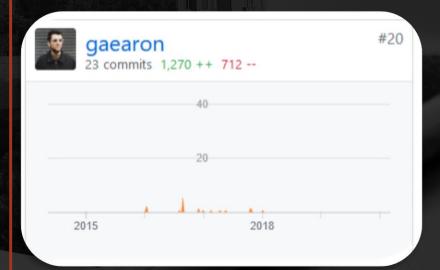






## ANYONE CAN CONTRIBUTE TO THE PROJECT







# EVEN YOU





# **QUALITY ATTRIBUTES**



### **QUALITY ATTRIBUTES**

PERFORMANCE EFFICIENCY

We want good performance for our tests

2

MANTAINA BILITY

```
viest('Render Map is Correct',()=>{
    const main = mount(<MainPage/>);

    expect(main.find('MapContainer')).toBeDefined();
});
```

RELIABILITY

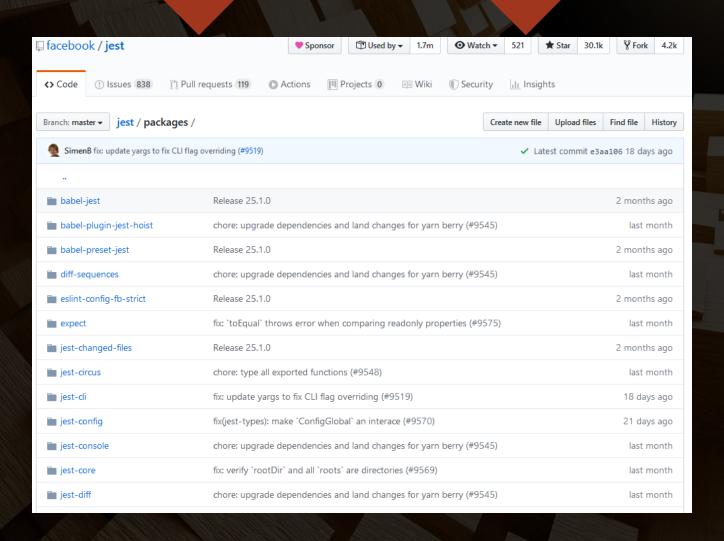
Tests must be trustable

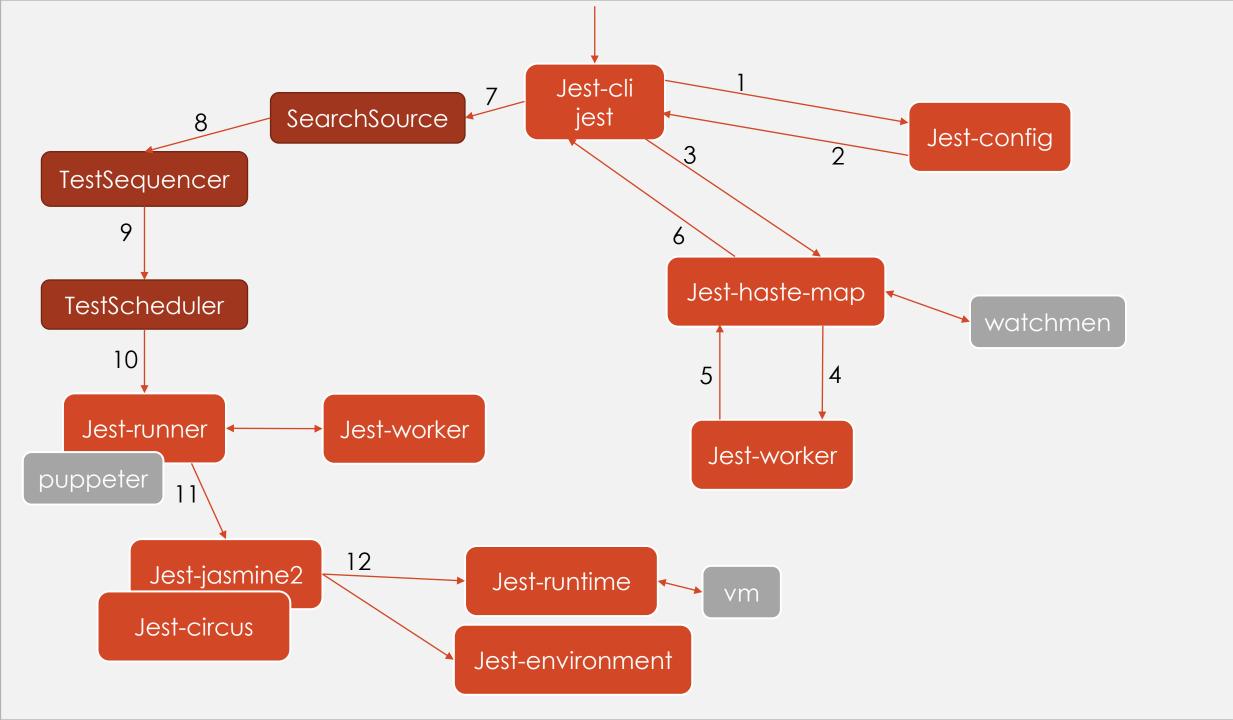


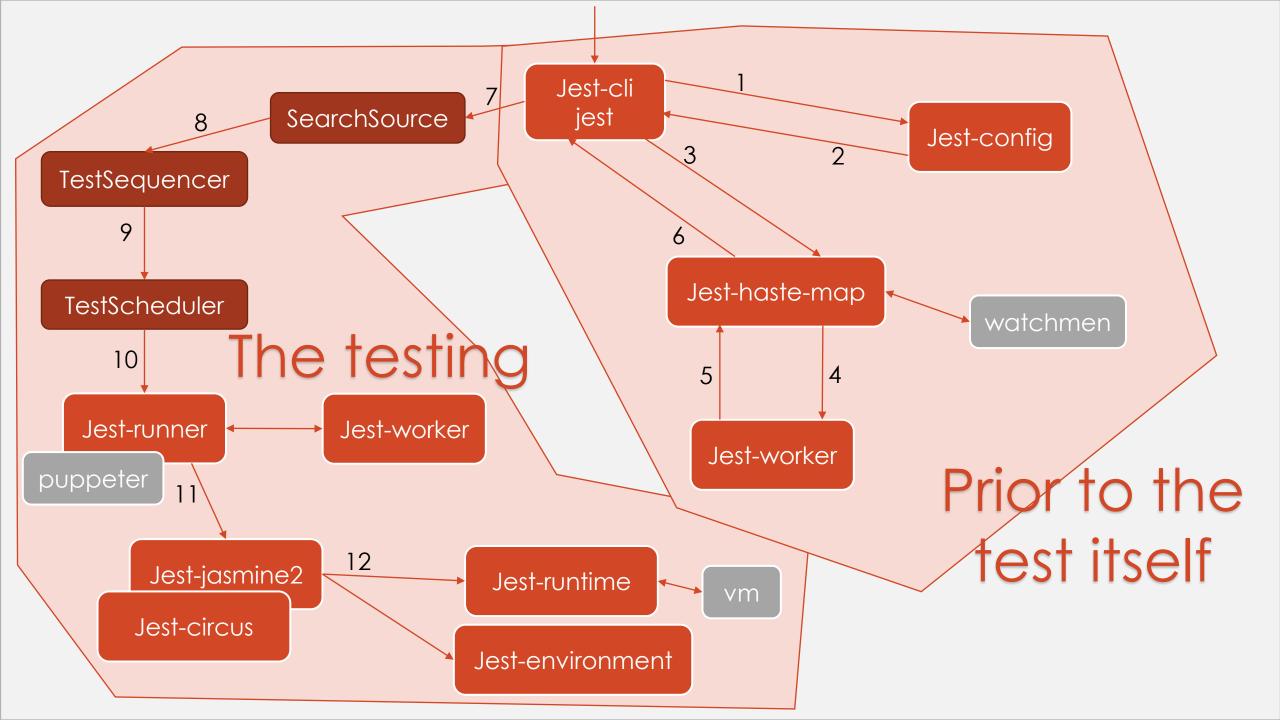
# JEST ARCHITECTURE

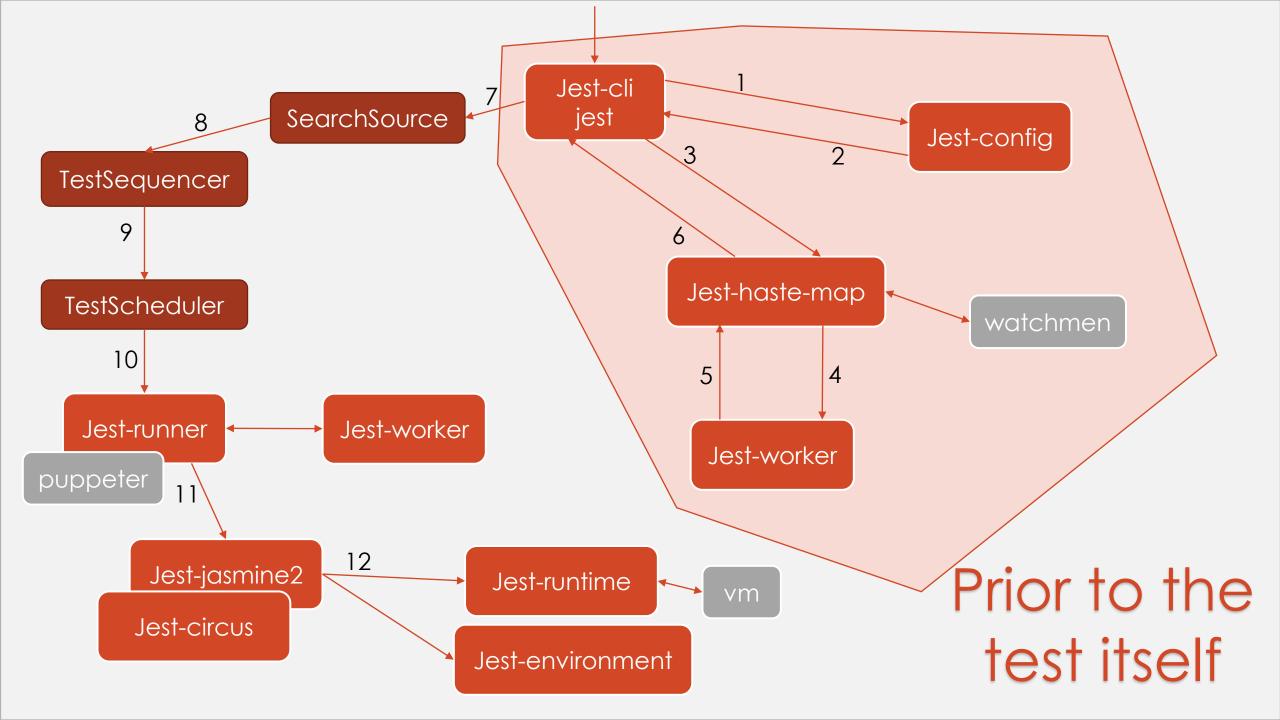


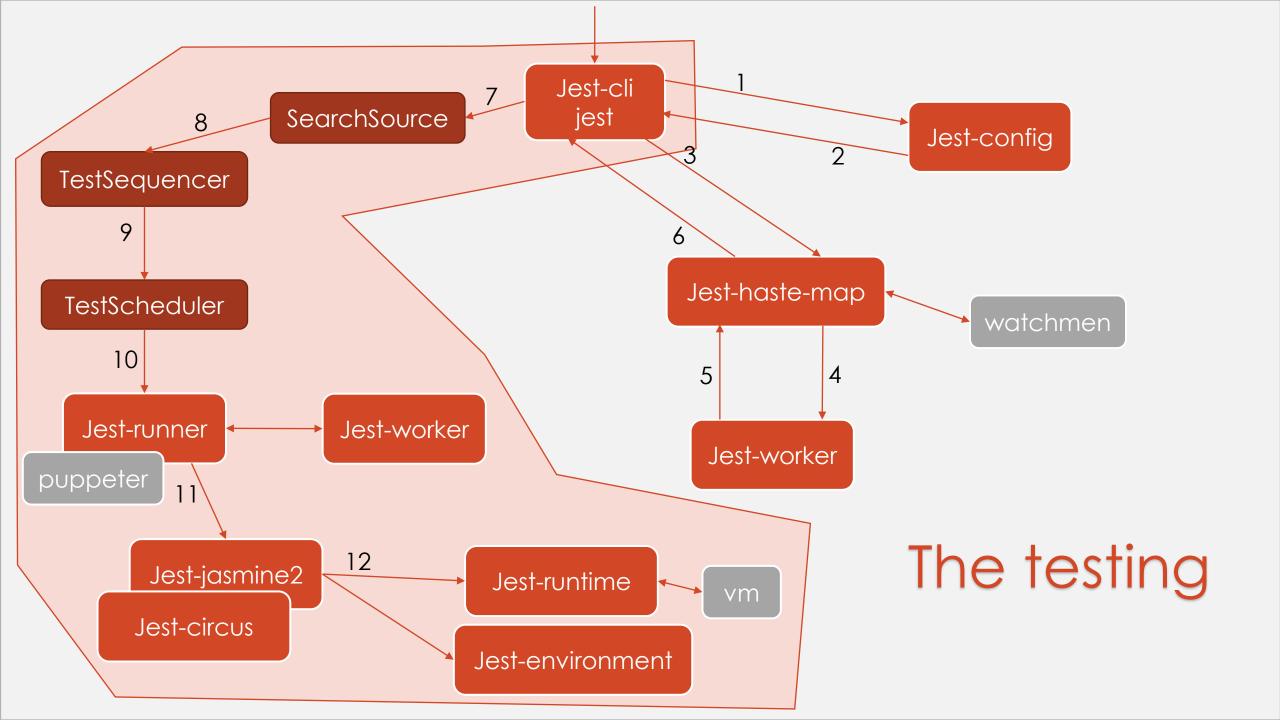
# How is the code organized?

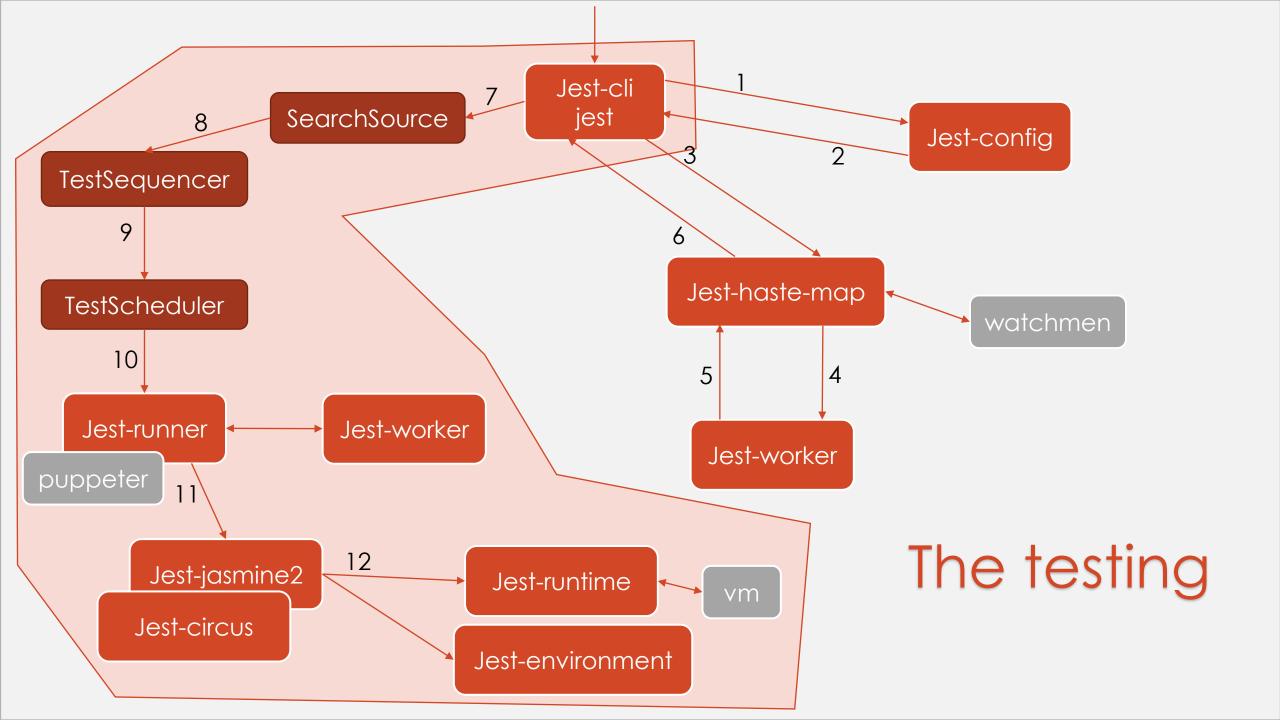


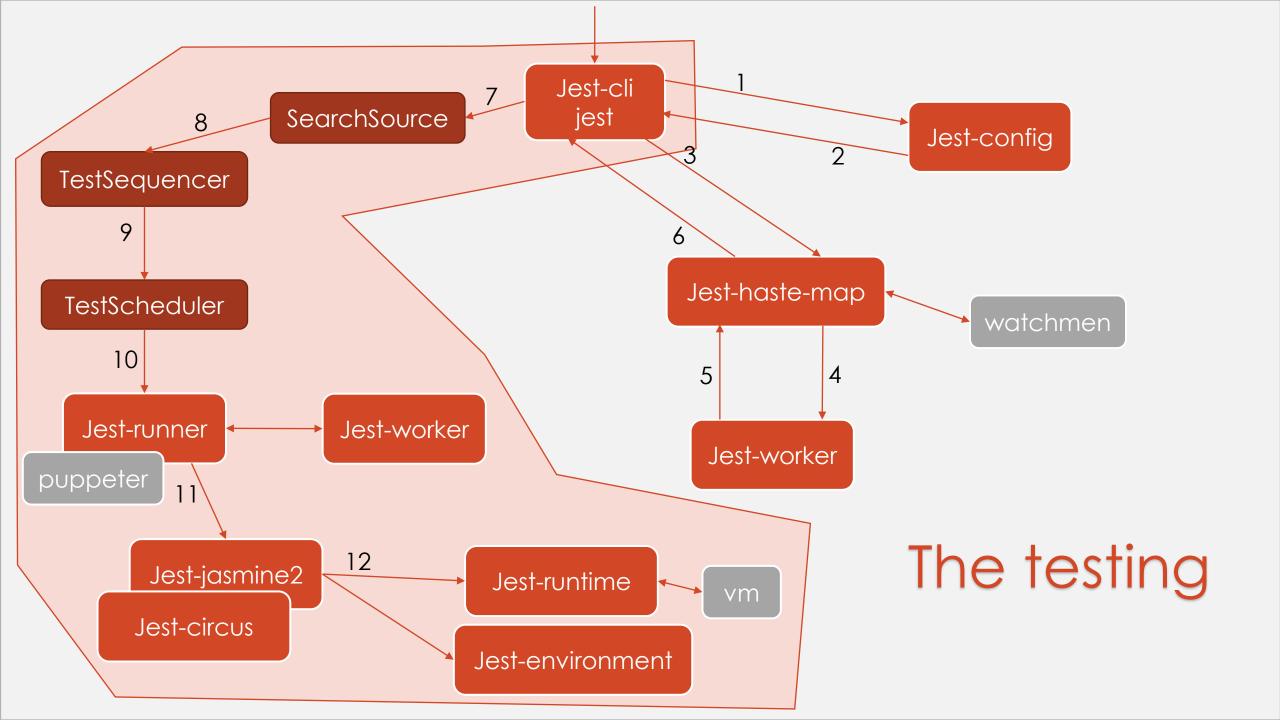








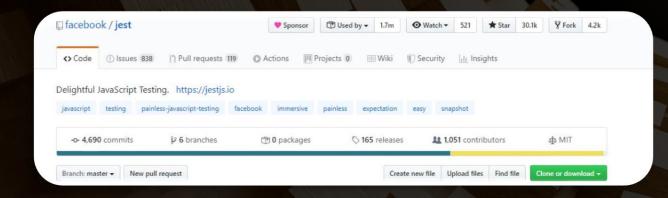




# CONTRIBUTE



#### How to contribute



#### Take a look to:

- Facebook Open Source CoC
- Contributing guide of Jest





### Other considerations

#### Code conventions:

- 2 spaces for indentation
- 80 char line length
- 'over"
- Use TypeScript
- •





# **COMPILE JEST**



### How do we compile Jest?

#### Install:

- Yarn
- Python (2.7)
- Node.js (12.x)

#### Run

PS D:\Program Files\GitHub\jest> yarn install

PS D:\Program Files\GitHub\jest> yarn run build

OR

PS D:\Program Files\GitHub\jest> yarn test

yarn link jest-cli

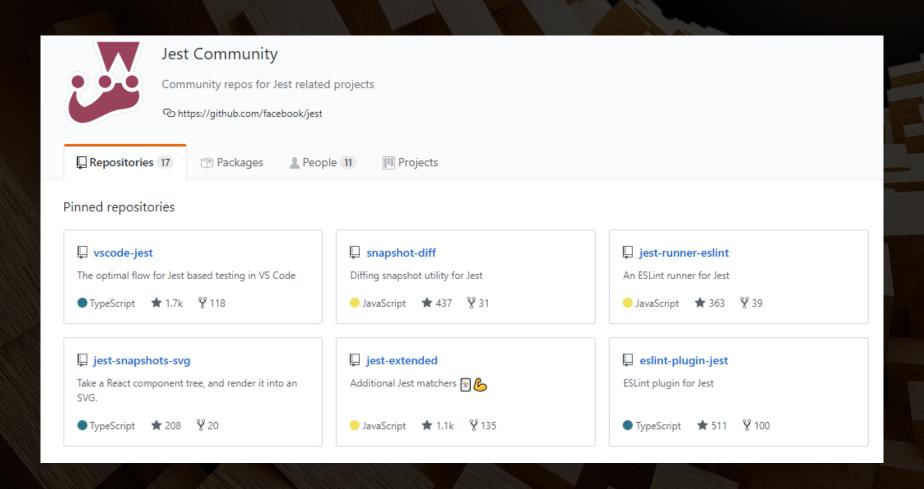
yarn unlink jest-cli



# JEST COMMUNITY



## Jest Community and extensions



### Visual Studio Code extension

#### **Features**

Starts Jest automatically

Show individual fail / passes inline

Highlights the errors next to the expect functions

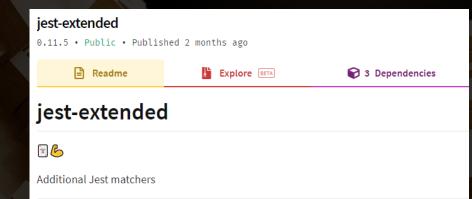
Help debug jest tests in vscode

```
_travis.test.js •
                import Travis from "../Travis"
                const correctEnv = {
                 "HAS_JOSH_K_SEAL_OF_APPROVAL": "true",
                 "TRAVIS_PULL_REQUEST": "800",
                 "TRAVIS_REPO_SLUG": "artsy/eigen"
               describe(".isCI", () \Rightarrow {
                 test("validates when all Travis environment vars are set and Josh K says
                 so", () ⇒ {
                   const travis = new Travis(correctEnv)
                   expect(travis.isCI).toBeTruthy()
                                                                                   ♦ ≧ ~
         Test Suites: 7 passed, 7 total
                      44 passed, 44 total
         Snapshots: 0 total
                      1.204s
         Ran all test suites related to changed files.
Ln 3, Col 1 Spaces: 2 UTF-8 LF JavaScript React ESLint
```



## Jest-extended

Provides new matchers (assertions) to ease testing



npm install --save-dev jest-extended

# CONCLUSION

