

# 小学期大作业

## 前后端综合选题--Web集成开发环境



- 组队人数：4 ~ 6人
- 选题简述：
  - 搭建一个Web集成开发环境前后端系统，可以支持java、python、matlab的在线开发与调试（至少选其一，多选加分）
  - 支持语法加亮、代码提示与自动补全
  - java支持jar包，支持单步跟踪调试、断点调试、运行、输入输出（py、java）
  - 支持代码文件的上传下载（py、java）
  - 支持必要的代码工程管理
  - 支持多语言的拓展能力
- 原型参考：<https://lightly.teamcode.com/>

## 参考项目

### 这是一个python的解释器,很轻量

PyScript is a framework that allows users to create rich Python applications in the browser using HTML's interface and the power of Pyodide, WASM, and modern web technologies. The PyScript framework provides users at every experience level with access to an expressive, easy-to-learn programming language with countless applications.



Run Python in Your HTML

```
<html>
...
<py-script> print('Now you can!') </py-script>
</html>
|
```



**Download**

Get started with PyScript



**Install**

Click here for instructions

Please be advised that PyScript is very alpha and under heavy development. There are many known issues, from usability to loading times, and you should expect things to change often. We encourage people to play and explore with PyScript, but at this time we do not recommend using it for production.

## Github第一的项目

Codiad is a web-based IDE framework with a small footprint and minimal requirements.

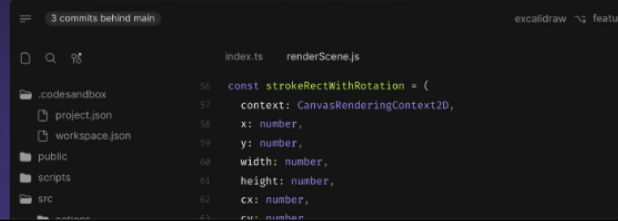
不过感觉难度有点大

## Github最高star

太帅了

CodeSandbox | Projects

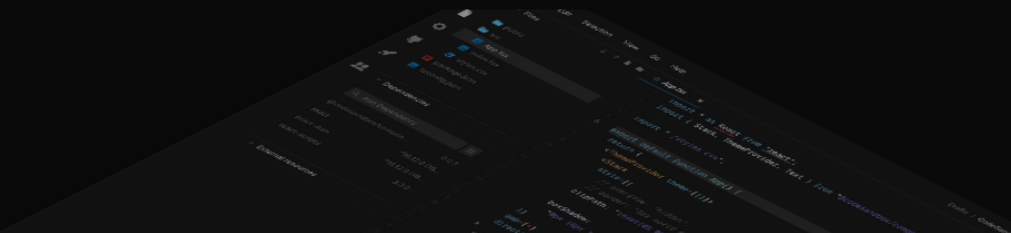
Experience the future  
of web development.

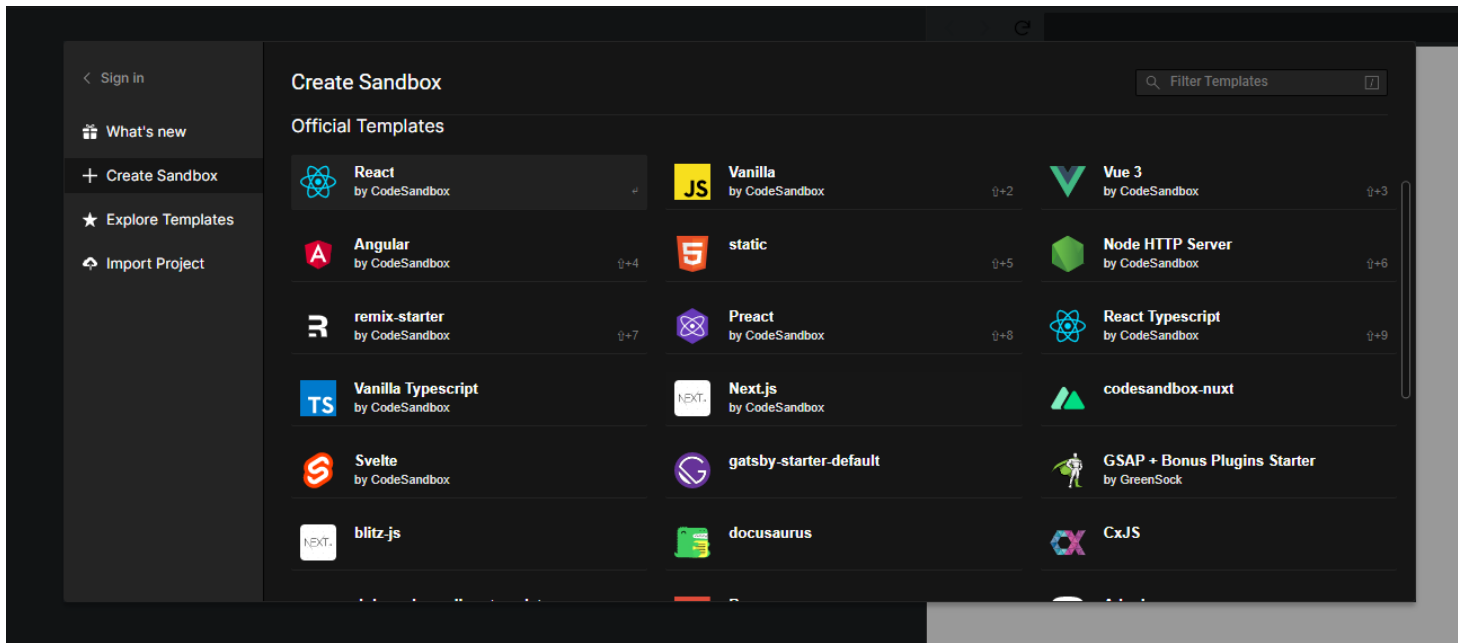
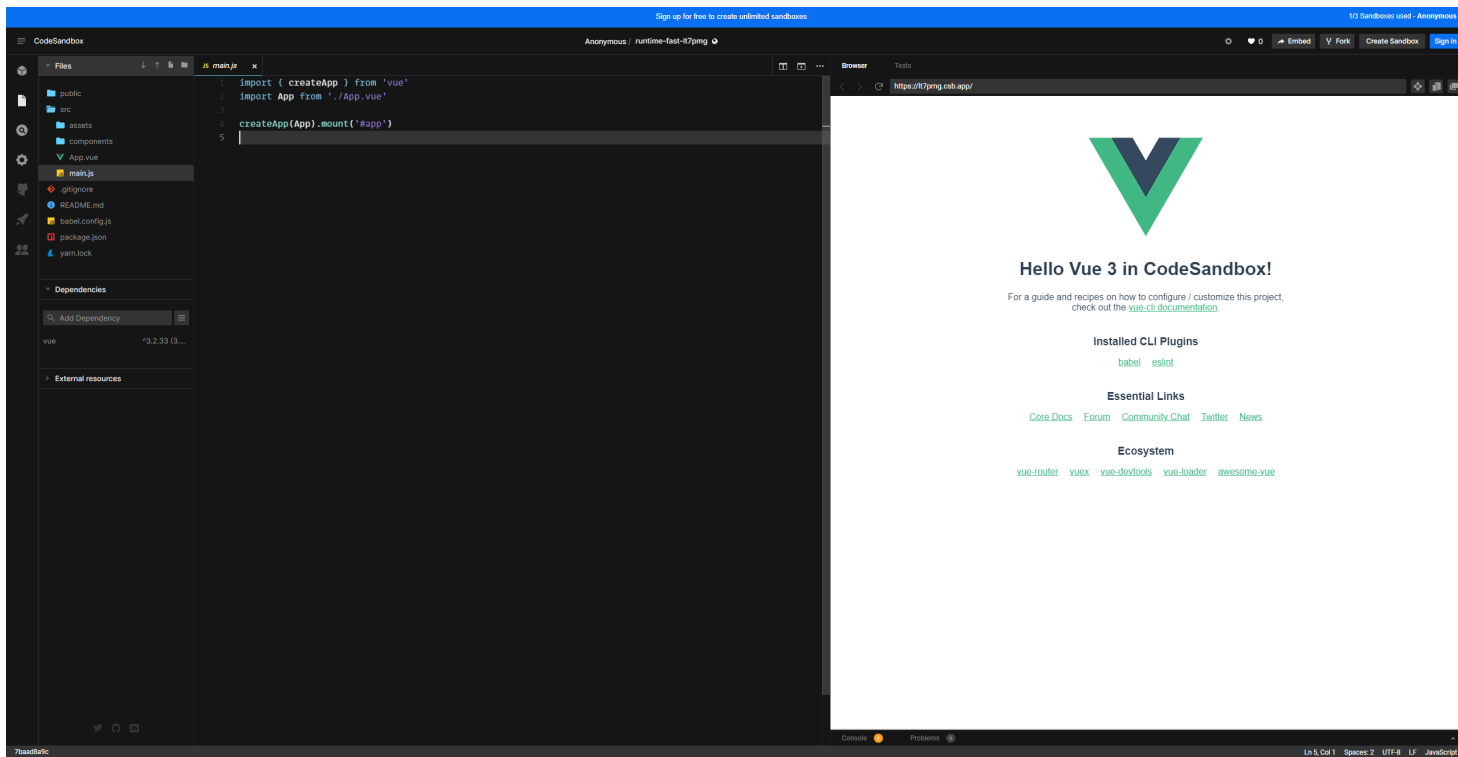
[Join the waitlist >](#)

```
index.ts  renderScene.js
56 const strokeRectWithRotation = (
57   context: CanvasRenderingContext2D,
58   x: number,
59   y: number,
60   width: number,
61   height: number,
62   cx: number,
63   cy: number,
```

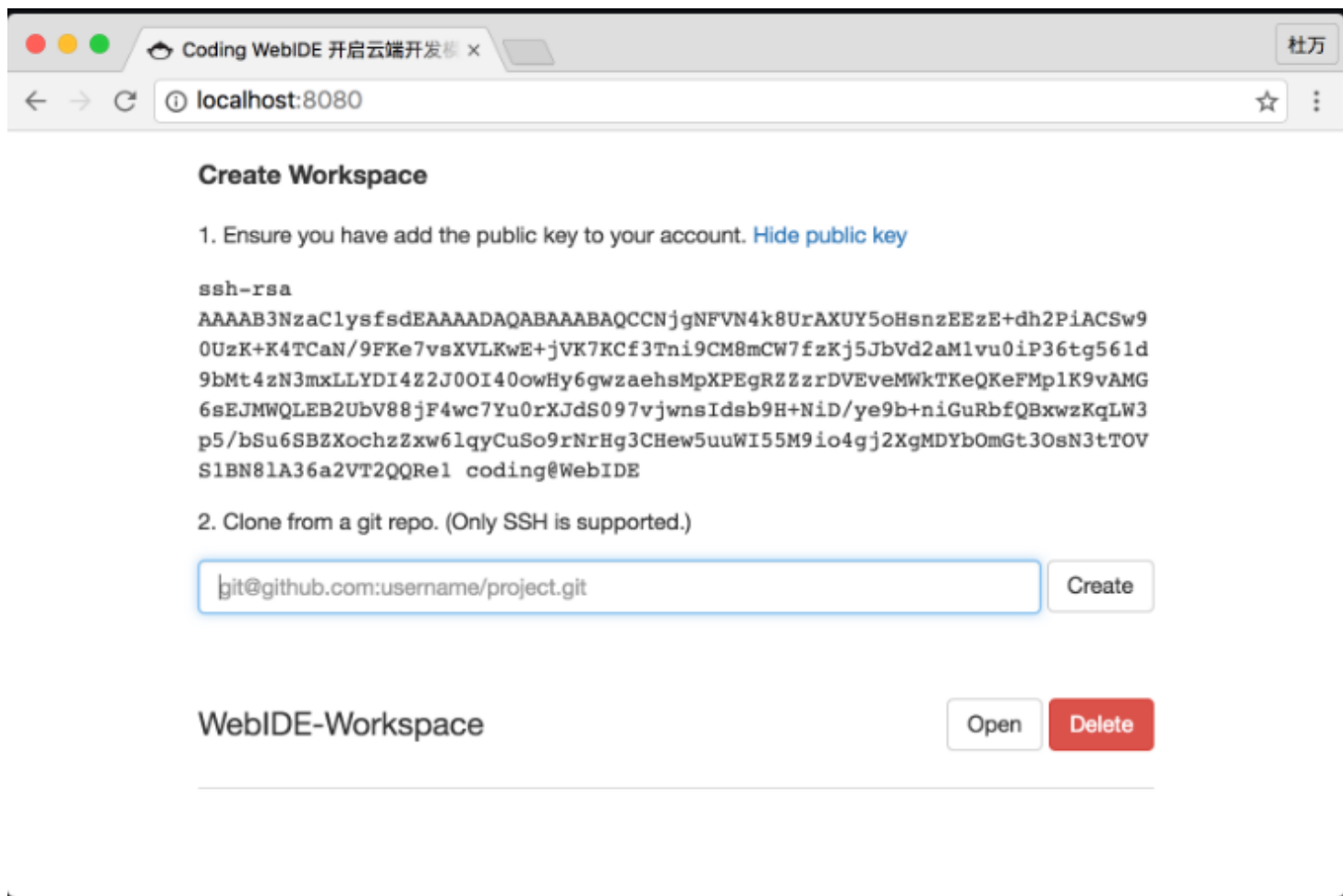
# Where teams build faster, together.

Create, share, and get feedback with collaborative  
sandboxes for rapid web development.

[</> Start coding for free](#)



华人做的一个IDE



## Modules

WebIDE-Frontend: contains frontend code.

WebIDE-Frontend-Webjars: packs frontend to webjar.

WebIDE-Backend: contains backend code.

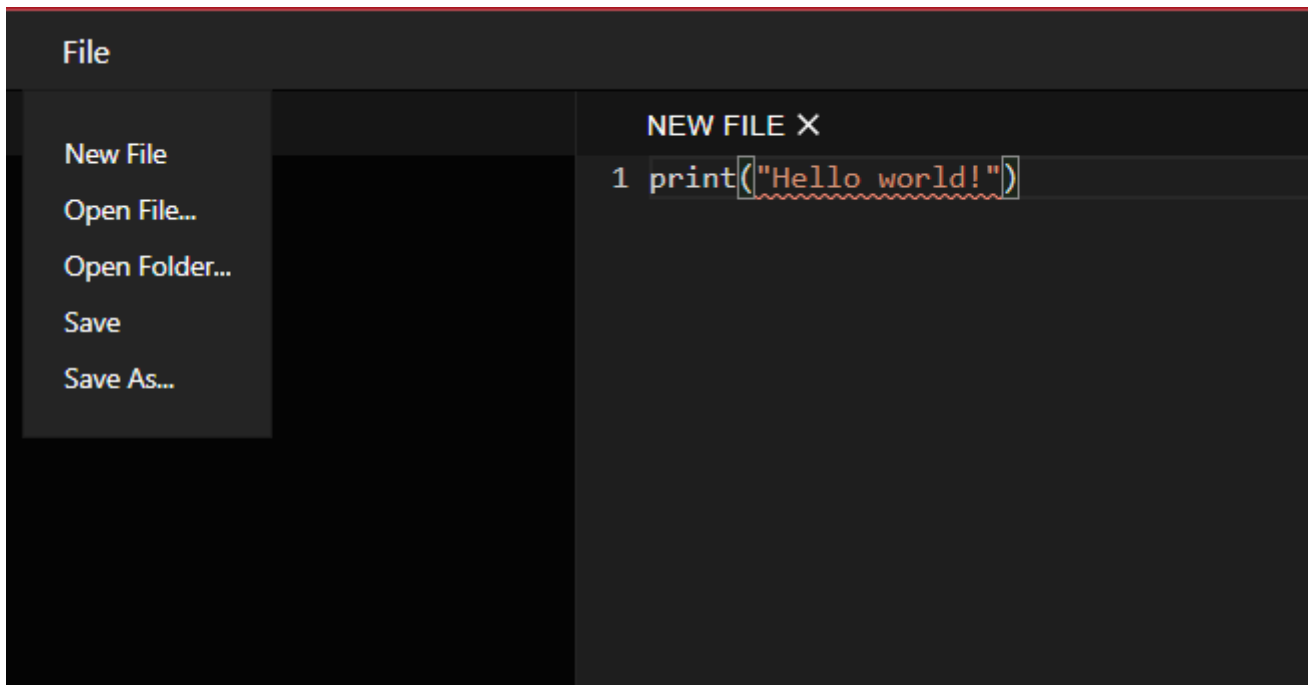
## 前端

This repo contains frontend code of the Coding WebIDE Community Edition. Please refer to the WebIDE repo for instruction on running the whole project.

## 后端

本项目是开源版 WebIDE 的后端程序

## 一个比较简单的项目, 实现了文件上传下载



**CodeBox**

# Codebox

"Open source cloud & desktop IDE."

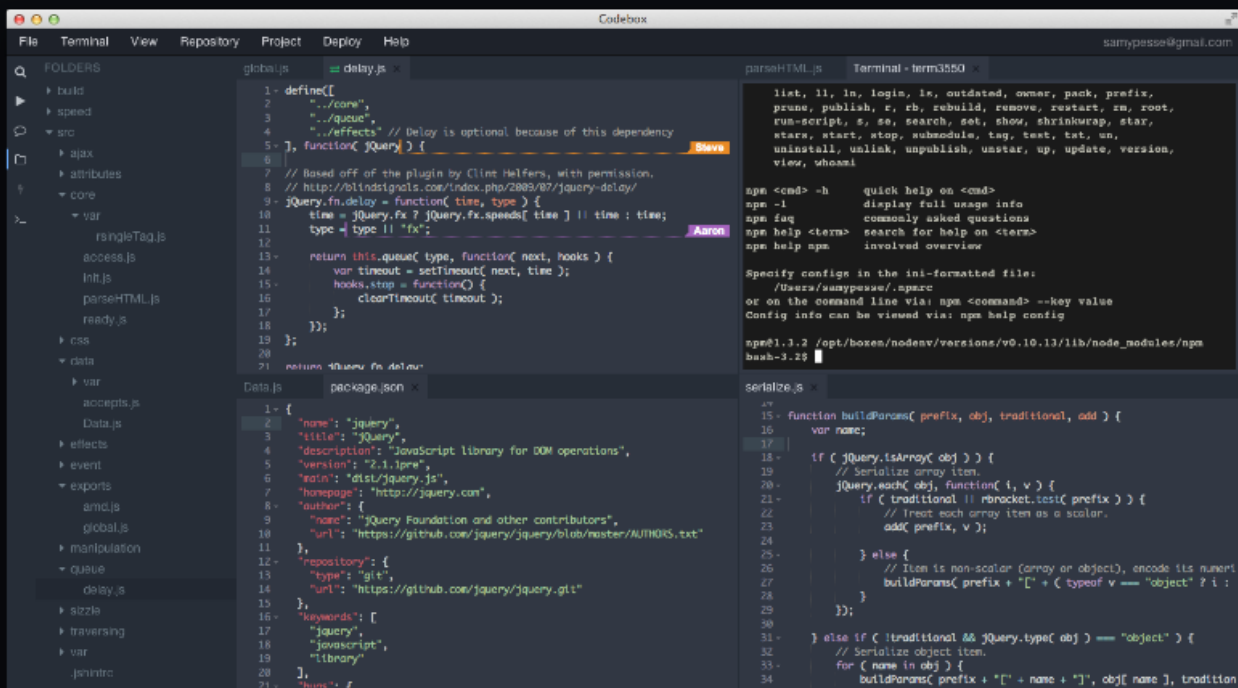
build passing npm package 0.8.3

Codebox is a complete and modular Cloud IDE. It can run on any unix-like machine (Linux, Mac OS X). It is an open source component of [codebox.io](#) (Cloud IDE as a Service).

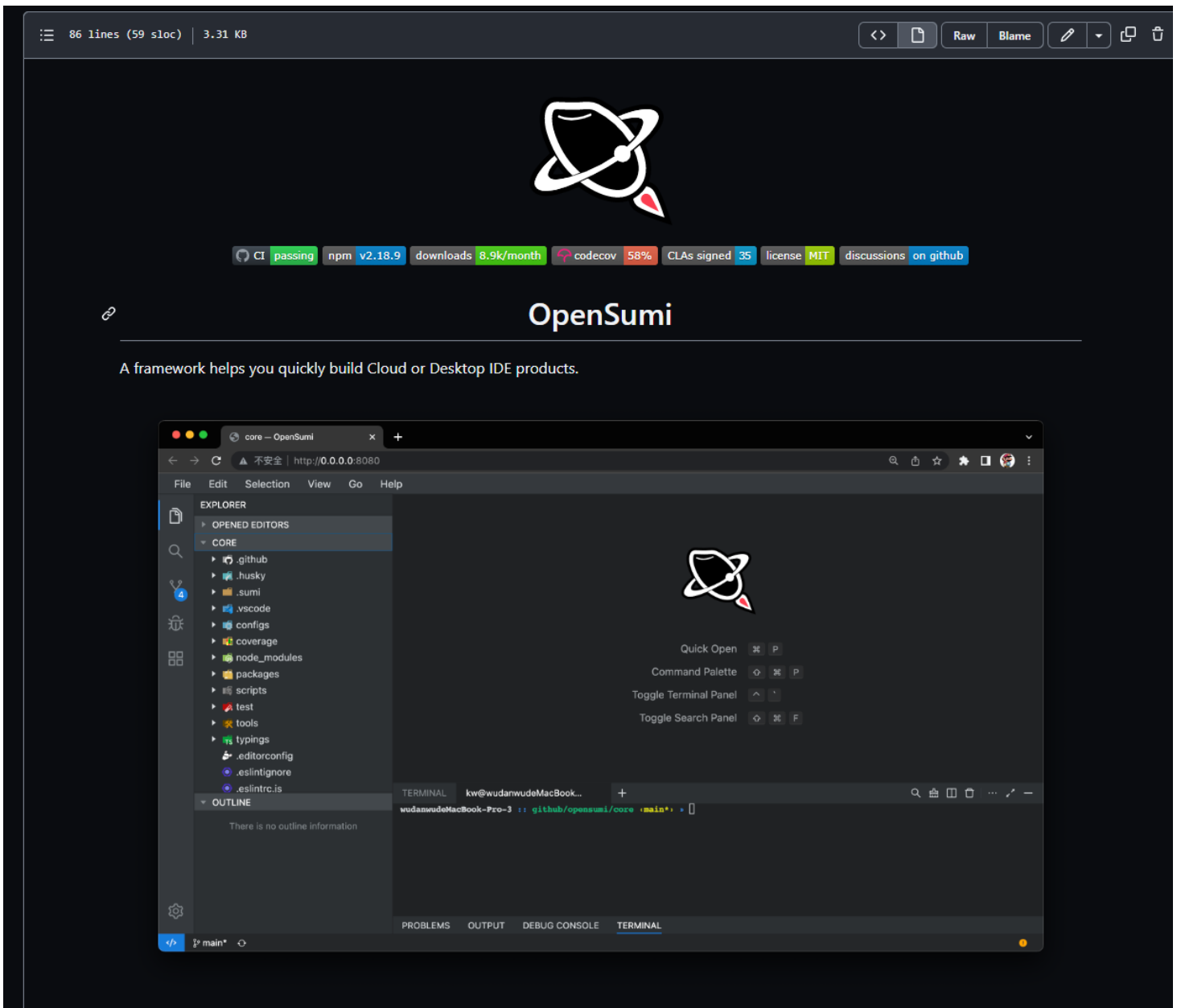
The IDE can run on your desktop (Linux or Mac), on your server or the cloud. You can use the [codebox.io](#) service to host and manage IDE instances.

Codebox is built with web technologies: `node.js`, `javascript`, `html` and `less`. The IDE possesses a very modular and extensible architecture, that allows you to build your own features with through add-ons. Codebox is the first open and modular IDE capable of running both on the Desktop and in the cloud (with offline support).

The project is open source under the [Apache 2.0](#) license. A screencast of the IDE is available on [Youtube](#).



最后一个 一个framework



## VScode?

- 明确
- 1. 任务,工作,分工
- 2. ddl
- 3. 下一次组会时间