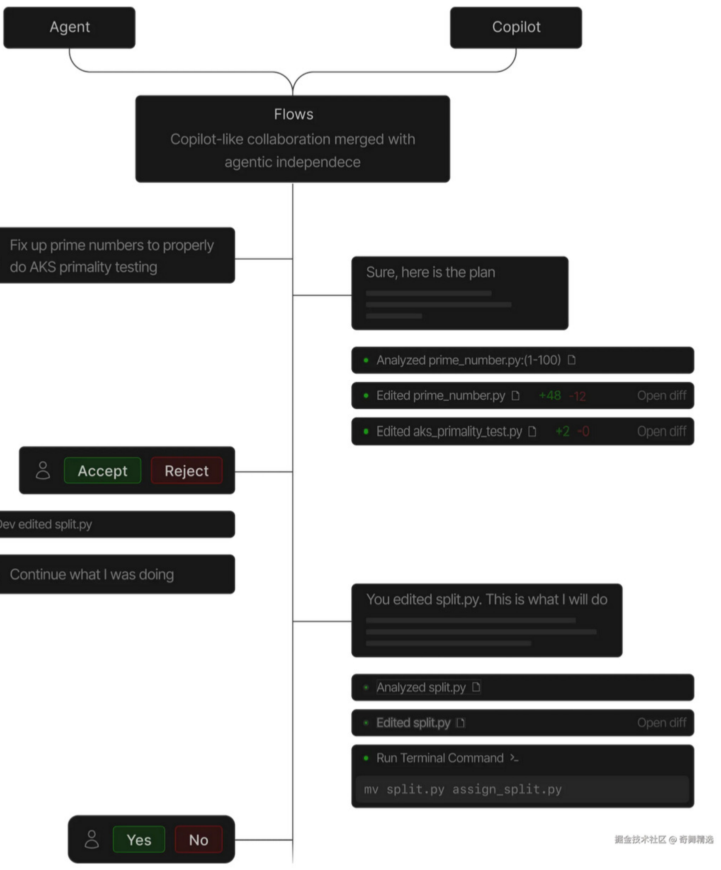
Windsurf的特点

AI智能代理：

`Flows = Agents + Copilots`

Windsurf采用了AI Flow范式，支持多步骤、多工具协同，自动维护上下文状态，智能任务规划和执行。可以像 Copilot 一样与你协作，也可以像 Agent 一样独立处理复杂的任务。


Agent
Copilot
Flows
Copilot-like collaboration merged with agentic independece
Fix up prime numbers to properly do AKS primality testing
Sure, here is the plan
Analyzed prime_number.py:(1-100)
Edited prime_number.py +48 -12 Open diff
Edited aks_primality_test.py +2 -0 Open diff
Accept
Reject
Dev edited split.py
Continue what I was doing
You edited split.py. This is what I will do
Analyzed split.py
Edited split.py Open diff
Run Terminal Command
mv split.py assign_split.py
Yes
No
掘金技术社区 @ 奇舞精选

Cascade 模式

提供编辑和聊天两种模式，编辑模式可以生成和修改代码，直接将生成的代码写入到对应的文件，聊天模式专注于提供开发建议、解答代码问题。

内置代码搜索

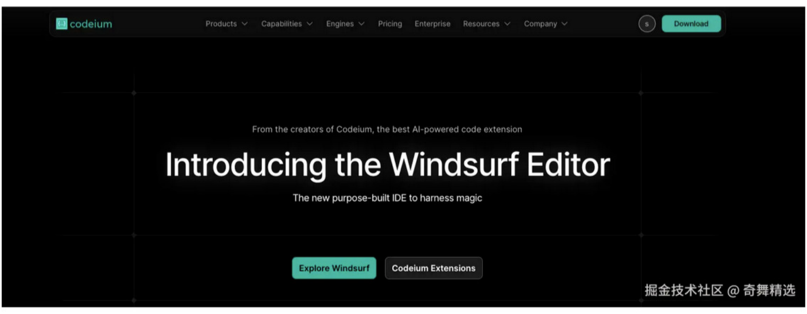
1. 分析工具文件系统操作
2. 管理命令行集成
3. 自动化智能代码编辑和重构

上下文理解能力

Windsurf的上下文引擎能够更深入地理解项目代码关系，提供更智能的代码建议。它不光补全你正在写的代码，还能预测你接下来要写什么。

Windsurf的安装和使用

- **安装**：Windsurf支持Windows、Mac和Linux平台，安装过程简单，可以直接从官网（codeium.com/windsurf）下载...


codeium
Products
Capabilities
Engines
Pricing
Enterprise
Resources
Company
Download
Explore Windsurf
Codeium Extensions

From the creators of Codeium, the best AI-powered code extension

Introducing the Windsurf Editor

The new purpose-built IDE to harness magic

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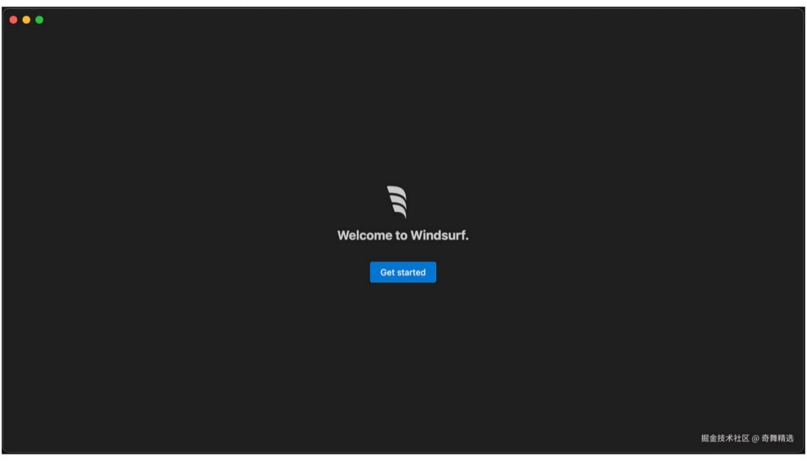
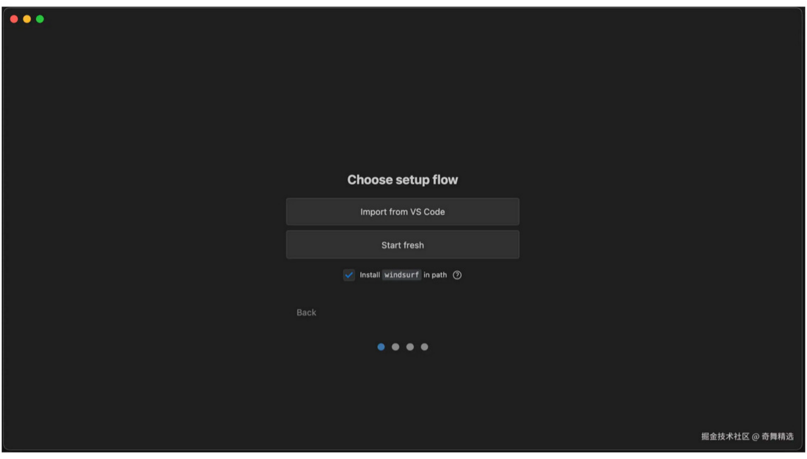
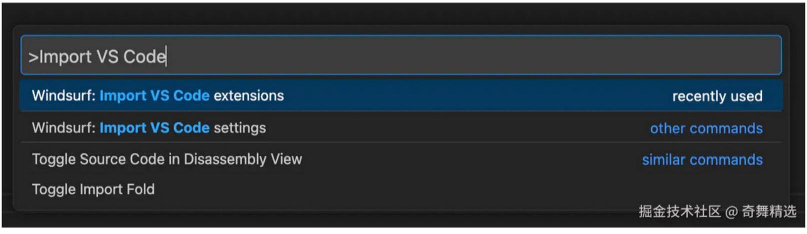
运行Windsurf后，看到下面的页面


Welcome to Windsurf.
Get started
掘金技术社区 @ 奇舞精选

设置流程：

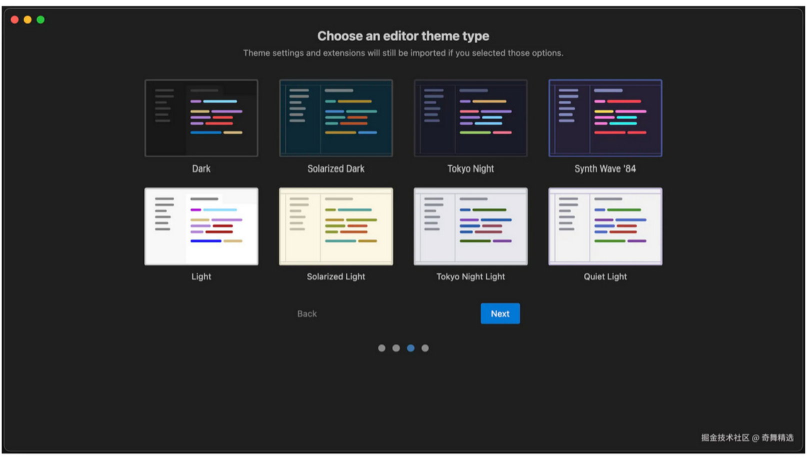
如果想使用**VS Code**的配置，可以选择从**VS Code**导入，也可以选择重新开始配置**Windsurf**。如果你选择了重新开始，那么后续该如何导入**VS Code**配置哪，**Windsurf**提供了从控制面板重新添加的入口。（在 Mac 上为 **⌘+⇧+P**，在 **Windows/Linux** 上为 **Ctrl+Shift+P**）并输入"**import from VS Code**"。


Choose setup flow
Import from VS Code
Start fresh
☑ Install windsurf in path
Back
掘金技术社区 @ 奇舞精选


>Import VS Code
Windsurf: Import VS Code extensions
recently used
Windsurf: Import VS Code settings
other commands
Toggle Source Code in Disassembly View
similar commands
Toggle Import Fold
掘金技术社区 @ 奇舞精选

选择编辑器的主题：

从这些默认值中选择你最喜欢的颜色主题！别担心，以后可以随时更改此设置。请注意，如果你从 VS Code 导入，则导入的主题将覆盖此主题。



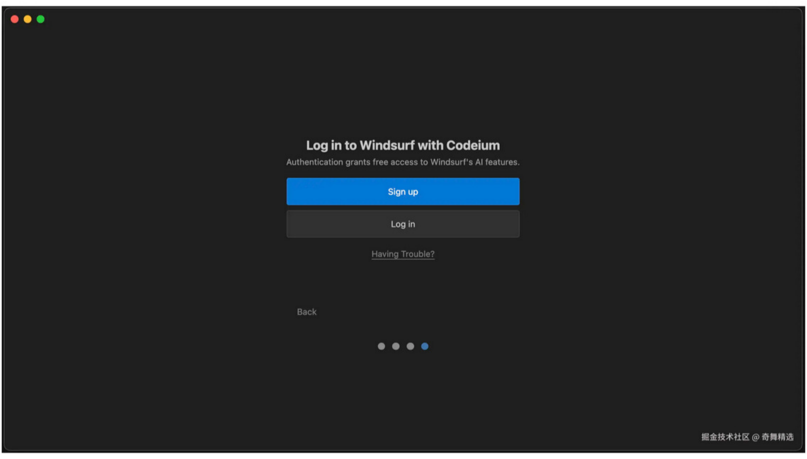
Choose an editor theme type

Theme settings and extensions will still be imported if you selected those options.

Dark
Solarized Dark
Tokyo Night
Synth Wave '84
Light
Solarized Light
Tokyo Night Light
Quiet Light
Back
Next
掘金技术社区 @ 奇舞精选

注册/登录

要使用 **Windsurf**，需要使用 **Codeium** 帐户。

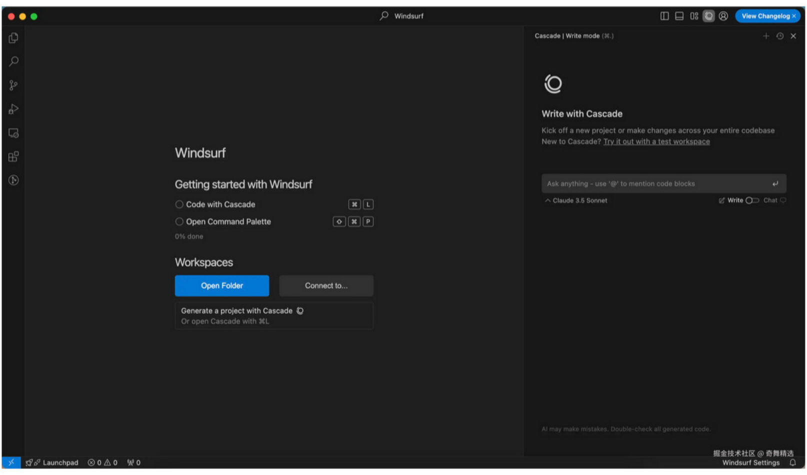


Log in to Windsurf with Codeium

Authentication grants free access to Windsurf's AI features.

Sign up
Log in
Having Trouble?
Back
掘金技术社区 @ 奇舞精选

主界面：



Write with Cascade

Kick off a new project or make changes across your entire codebase
New to Cascade? Try it out with a test workspace

AI may make mistakes. Double-check all generated code.

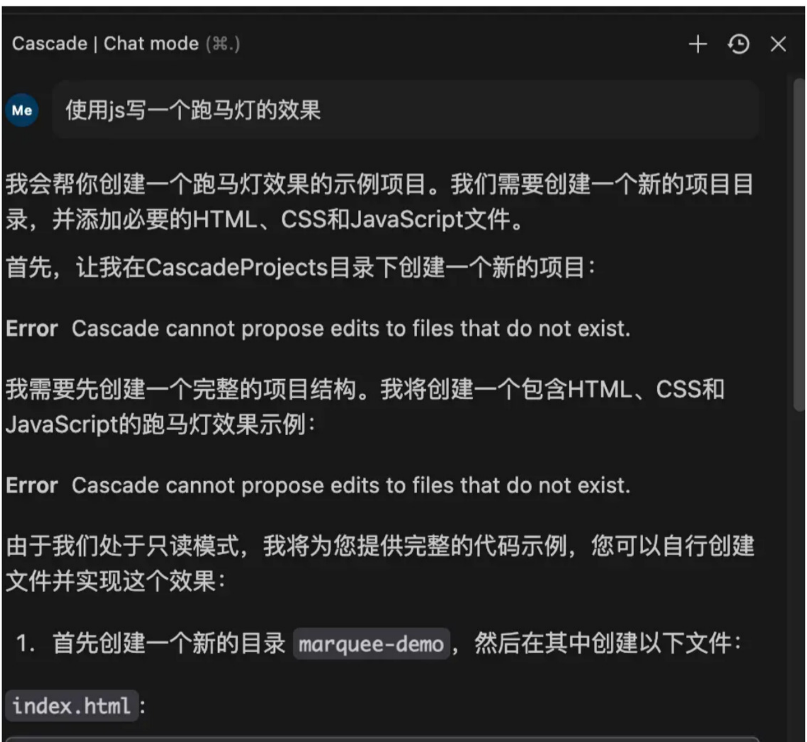
Windsurf
View Changelog
Cascade | Write mode (⌘.)
Windsurf
Getting started with Windsurf
○ Code with Cascade ⌘ L
○ Open Command Palette ⇧ ⌘ P
0% done
Workspaces
Open Folder
Connect to...
Generate a project with Cascade
Or open Cascade with ⌘L
Ask anything - use '@' to mention code blocks
Claude 3.5 Sonnet
Write
Chat
Launchpad
0 0
0
Windsurf Settings
掘金技术社区 @ 奇舞精选

Cascade（command+L、ctrl+L）

Cascade将功能分成了两类，一个是**Chat**模式，一个是**Write**模式，

Chat模式：在Chat模式时，只是作为一个贴心的助理，协助你处理问题

chat转存失败，建议直接上传图片文件



Cascade | Chat mode (⌘.)
Me

使用js写一个跑马灯的效果

我会帮你创建一个跑马灯效果的示例项目。我们需要创建一个新的项目目录，并添加必要的HTML、CSS和JavaScript文件。

首先，让我在CascadeProjects目录下创建一个新的项目：

Error Cascade cannot propose edits to files that do not exist.

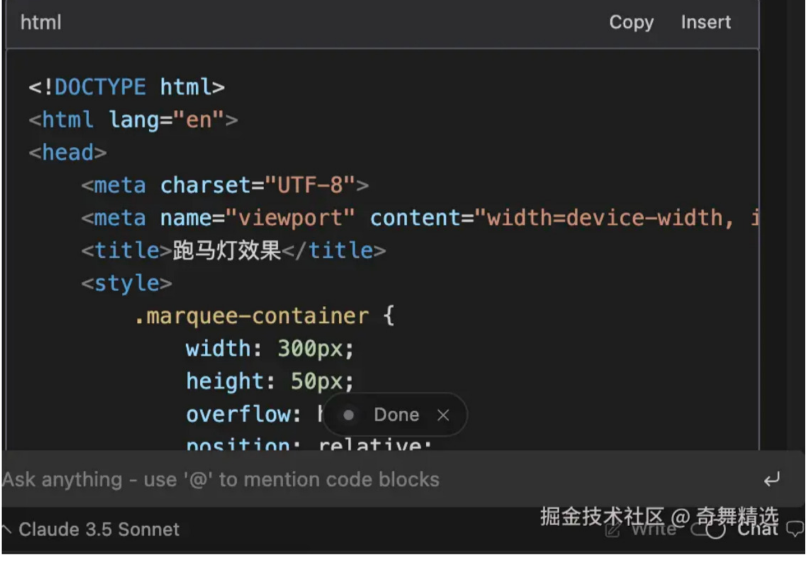
我需要先创建一个完整的项目结构。我将创建一个包含HTML、CSS和JavaScript的跑马灯效果示例：

Error Cascade cannot propose edits to files that do not exist.

由于我们处于只读模式，我将为您提供完整的代码示例，您可以自行创建文件并实现这个效果：

1. 首先创建一个新的目录 `marquee-demo`，然后在其中创建以下文件：

`index.html`：


html
Copy
Insert
Done
Write
Chat

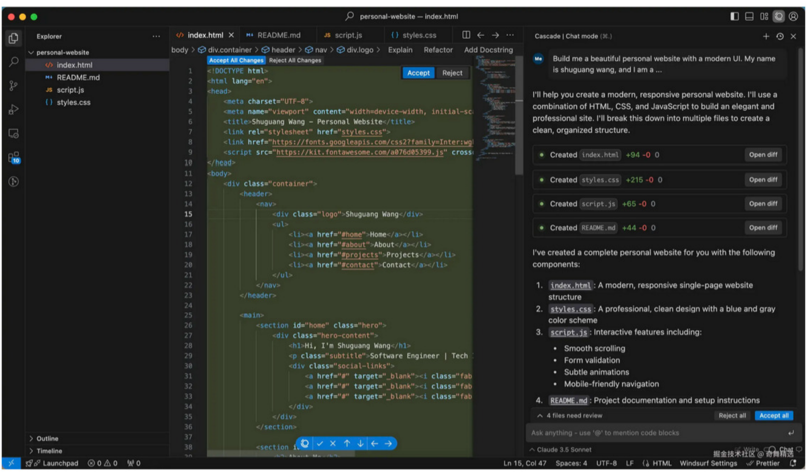
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, i
    <title>跑马灯效果</title>
    <style>
        .marquee-container {
            width: 300px;
            height: 50px;
            overflow: h
            position: relative;
```

Ask anything - use '@' to mention code blocks

Claude 3.5 Sonnet

掘金技术社区 @ 奇舞精选

Write模式: 在Write模式，直接将生成的代码写入到项目中。


personal-website — index.html
Explorer
personal-website
index.html
README.md
script.js
styles.css
Outline
Timeline
index.html
README.md
script.js
styles.css
body > div.container > header > nav > div.logo > Explain Refactor Add Docstring
Accept All Changes
Reject All Changes
Accept
Reject
Launchpad
Ln 15, Col 47 Spaces: 4 UTF-8 LF HTML Windsurf Settings Prettier
Cascade | Chat mode (⌘.)
Open diff
4 files need review
Reject all
Accept all

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-sc
    <title>Shuguang Wang - Personal Website</title>
    <link rel="stylesheet" href="styles.css">
    <link href="https://fonts.googleapis.com/css2?family=Inter:wg
    <script src="https://kit.fontawesome.com/a076d05399.js" cross
</head>
<body>
    <div class="container">
        <header>
            <nav>
                <div class="logo">Shuguang Wang</div>
                <ul>
                    <li><a href="#home">Home</a></li>
                    <li><a href="#about">About</a></li>
                    <li><a href="#projects">Projects</a></li>
                    <li><a href="#contact">Contact</a></li>
                </ul>
            </nav>
        </header>

        <main>
            <section id="home" class="hero">
                <div class="hero-content">
                    <h1>Hi, I'm Shuguang Wang</h1>
                    <p class="subtitle">Software Engineer | Tech
                    <div class="social-links">
                        <a href="#" target="_blank"><i class="fab
                        <a href="#" target="_blank"><i class="fab
                        <a href="#" target="_blank"><i class="fab
                    </div>
                </div>
            </section>

            <section i
```

Me: Build me a beautiful personal website with a modern UI. My name is shuguang wang, and I am a ...

I'll help you create a modern, responsive personal website. I'll use a combination of HTML, CSS, and JavaScript to build an elegant and professional site. I'll break this down into multiple files to create a clean, organized structure.

- Created `index.html` +94 -0 0
- Created `styles.css` +215 -0 0
- Created `script.js` +65 -0 0
- Created `README.md` +44 -0 0

I've created a complete personal website for you with the following components:

1. `index.html`: A modern, responsive single-page website structure
2. `styles.css`: A professional, clean design with a blue and gray color scheme
3. `script.js`: Interactive features including:
    - Smooth scrolling
    - Form validation
    - Subtle animations
    - Mobile-friendly navigation
4. `README.md`: Project documentation and setup instructions

Ask anything - use '@' to mention code blocks

Claude 3.5 Sonnet

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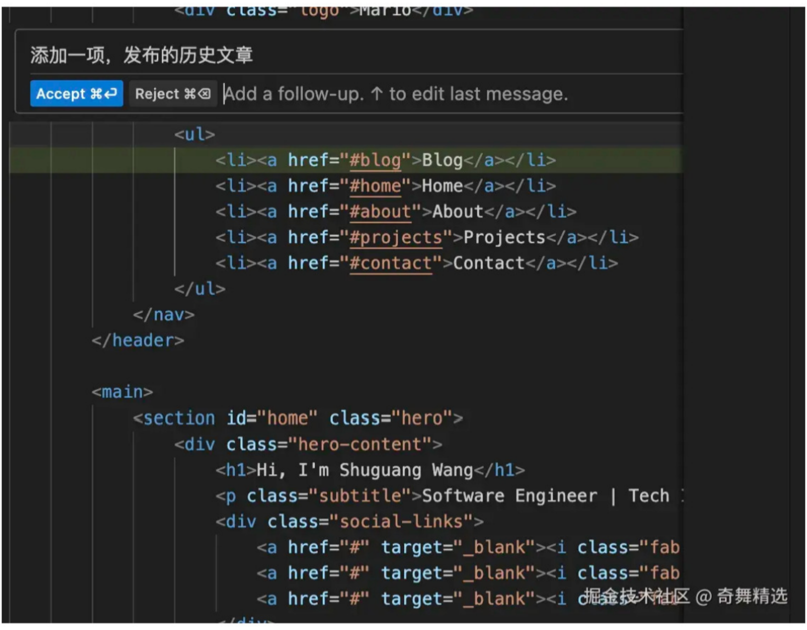
自然语言修改代码（**Cmd+i**）：支持在选中代码的时候，使用自然语言修改对应的代码。


Accept ⌘⏎
Reject ⌘⌫

添加一项，发布的历史文章

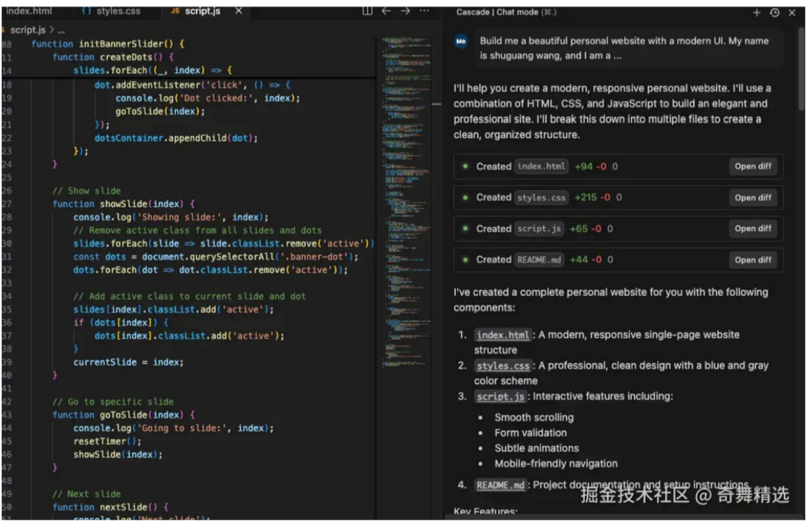
Add a follow-up. ↑ to edit last message.

```
                <div class="logo">Mario</div>
                <ul>
                    <li><a href="#blog">Blog</a></li>
                    <li><a href="#home">Home</a></li>
                    <li><a href="#about">About</a></li>
                    <li><a href="#projects">Projects</a></li>
                    <li><a href="#contact">Contact</a></li>
                </ul>
            </nav>
        </header>

        <main>
            <section id="home" class="hero">
                <div class="hero-content">
                    <h1>Hi, I'm Shuguang Wang</h1>
                    <p class="subtitle">Software Engineer | Tech
                    <div class="social-links">
                        <a href="#" target="_blank"><i class="fab
                        <a href="#" target="_blank"><i class="fab
                        <a href="#" target="_blank"><i 
```

掘金技术社区 @ 奇舞精选

通过上面的介绍，简单知道了Windsurf的简单实用，下面我将使用使用Windsurf编写一个个人网站


index.html
styles.css
script.js
script.js > ...
Cascade | Chat mode (⌘.)
Open diff

```
function initBannerSlider() {
    function createDots() {
        slides.forEach((_, index) => {
            dot.addEventListener('click', () => {
                console.log('Dot clicked:', index);
                goToSlide(index);
            });
            dotsContainer.appendChild(dot);
        });
    }

    // Show slide
    function showSlide(index) {
        console.log('Showing slide:', index);
        // Remove active class from all slides and dots
        slides.forEach(slide => slide.classList.remove('active'))
        const dots = document.querySelectorAll('.banner-dot');
        dots.forEach(dot => dot.classList.remove('active'));

        // Add active class to current slide and dot
        slides[index].classList.add('active');
        if (dots[index]) {
            dots[index].classList.add('active');
        }
        currentSlide = index;
    }

    // Go to specific slide
    function goToSlide(index) {
        console.log('Going to slide:', index);
        resetTimer();
        showSlide(index);
    }

    // Next slide
    function nextSlide() {
```

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- Created `index.html` +94 -0 0
- Created `styles.css` +215 -0 0
- Created `script.js` +65 -0 0
- Created `README.md` +44 -0 0

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    - Smooth scrolling
    - Form validation
    - Subtle animations
    - Mobile-friendly navigation
4. `README.md`: Project documentation and setup instructions

Key Features:

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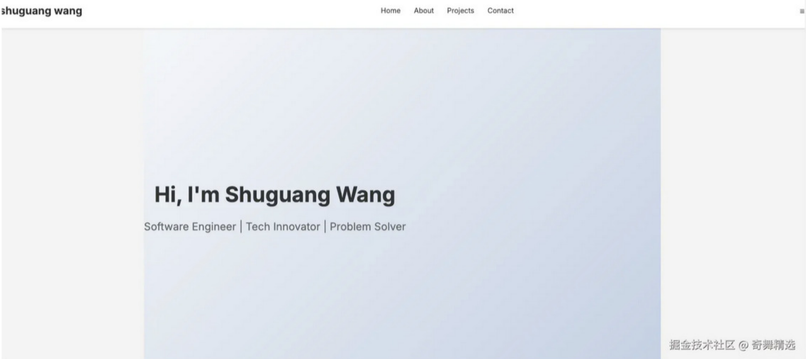
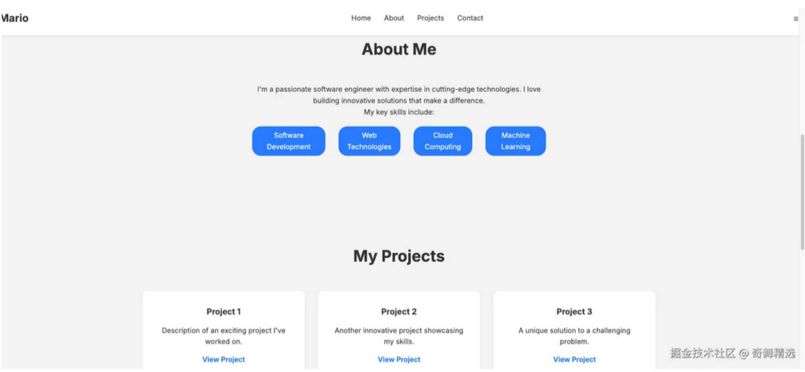
这样我的网站就有了基础的框架，只是现在的样式还不符合我们的要求，不过没有关系我们可以一点一点让windsurf进行优化，慢慢的变成我们想要的样子。


shuguang wang
Home
About
Projects
Contact

Hi, I'm Shuguang Wang

Software Engineer | Tech Innovator | Problem Solver

掘金技术社区 @ 奇舞精选


Mario
Home
About
Projects
Contact
Software Development
Web Technologies
Cloud Computing
Machine Learning
View Project
View Project
View Project

About Me

I'm a passionate software engineer with expertise in cutting-edge technologies. I love building innovative solutions that make a difference.
My key skills include:

My Projects

Project 1

Description of an exciting project I've worked on.

Project 2

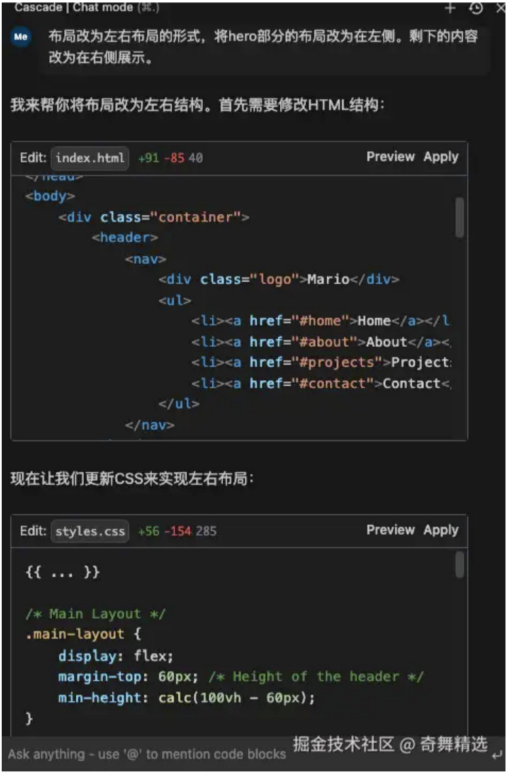
Another innovative project showcasing my skills.

Project 3

A unique solution to a challenging problem.

掘金技术社区 @ 奇舞精选

继续给Windsurf提示词，让他进行分析当前项目，并继续改造


Cascade | Chat mode (⌘.)
Me
Preview
Apply
Ask anything - use '@' to mention code blocks

布局改为左右布局的形式，将hero部分的布局改为在左侧。剩下的内容改为在右侧展示。

我来帮你将布局改为左右结构。首先需要修改HTML结构：

Edit: index.html +91 -85 40

```html
<body>
    <div class="container">
        <header>
            <nav>
                <div class="logo">Mario</div>
                <ul>
                    <li><a href="#home">Home</a></l
                    <li><a href="#about">About</a><
                    <li><a href="#projects">Project
                    <li><a href="#contact">Contact<
                </ul>
            </nav>
```

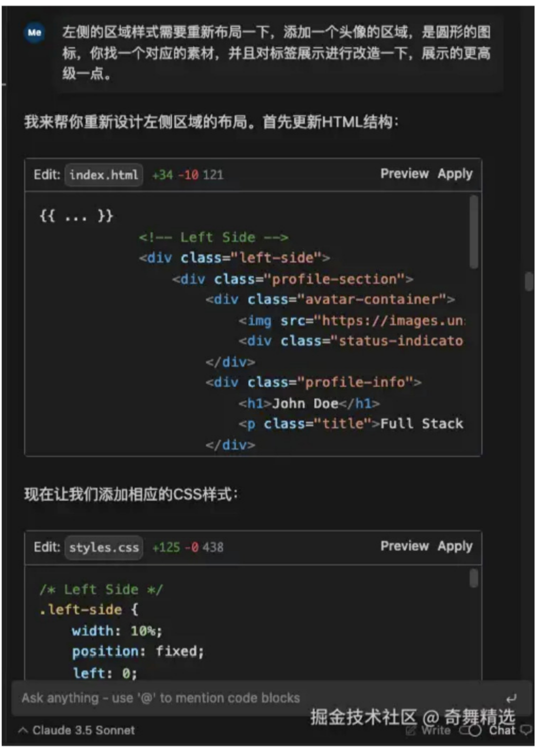
现在让我们更新CSS来实现左右布局：

Edit: styles.css +56 -154 285

```css
{{ ... }}

/* Main Layout */
.main-layout {
    display: flex;
    margin-top: 60px; /* Height of the header */
    min-height: calc(100vh - 60px);
}
```

掘金技术社区 @ 奇舞精选


Me
Preview
Apply
Ask anything - use '@' to mention code blocks
Claude 3.5 Sonnet
Write
Chat

左侧的区域样式需要重新布局一下，添加一个头像的区域，是圆形的图标，你找一个对应的素材，并且对标签展示进行改造一下，展示的更高级一点。

我来帮你重新设计左侧区域的布局。首先更新HTML结构：

Edit: index.html +34 -10 121

```html
{{ ... }}
            <!-- Left Side -->
            <div class="left-side">
                <div class="profile-section">
                    <div class="avatar-container">
                        <img src="https://images.un
                        <div class="status-indicato
                    </div>
                    <div class="profile-info">
                        <h1>John Doe</h1>
                        <p class="title">Full Stack
                    </div>
```

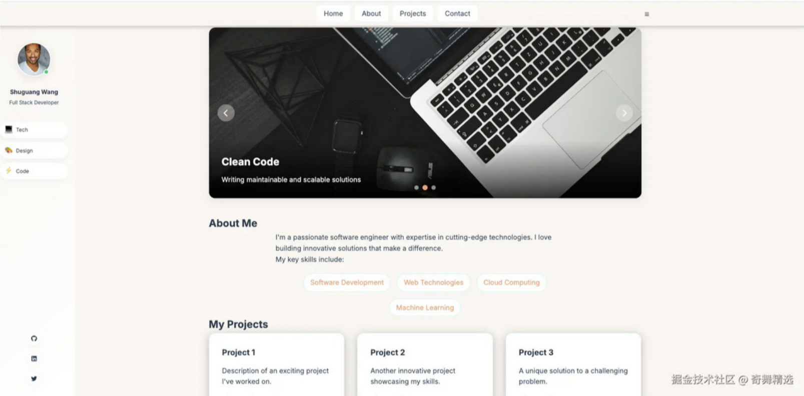
现在让我们添加相应的CSS样式：

Edit: styles.css +125 -0 438

```css
/* Left Side */
.left-side {
    width: 10%;
    position: fixed;
    left: 0;
```

掘金技术社区 @ 奇舞精选

经过几次的对话，对具体的细节进行不断的调整，Windsurf就生成了我们所想要的效果。


Home
About
Projects
Contact
Shuguang Wang
Full Stack Developer
Tech
Design
Code
Clean Code
Writing maintainable and scalable solutions
Software Development
Web Technologies
Cloud Computing
Machine Learning

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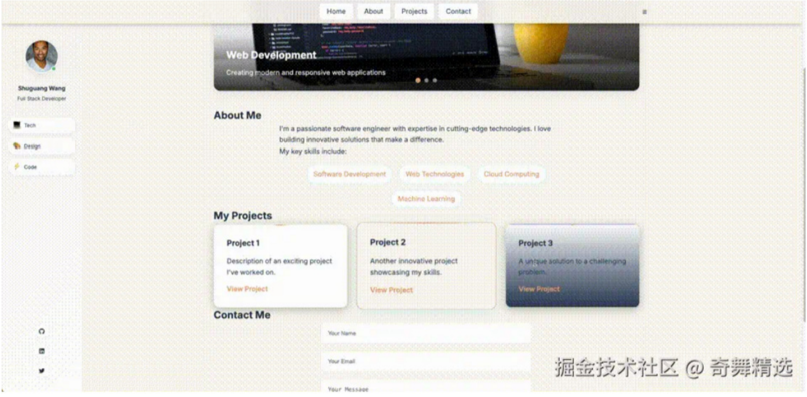
Project 2
Another innovative project showcasing my skills.

Project 3
A unique solution to a challenging problem.

掘金技术社区 @ 奇舞精选

成果展示：


Home
About
Projects
Contact
Shuguang Wang
Full Stack Developer
Tech
Design
Code
Web Development
Creating modern and responsive web applications
Software Development
Web Technologies
Cloud Computing
Machine Learning
View Project
View Project
View Project
Your Name
Your Email
Your Message

About Me

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Project 2
Another innovative project showcasing my skills.

Project 3
A unique solution to a challenging problem.

Contact Me

掘金技术社区 @ 奇舞精选

总结：

通过上面对Windsurf的简单介绍和实际例子的使用，大家可以清晰地了解到其强大的功能和灵活的应用场景。在实际工作中，根据自己的业务需求，巧妙地运用Windsurf可以帮助开发者快速编写一些基础的代码。