

Build Your Own Pair Programmer

A Workshop on AI Extensions

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Hi ! I'm Shekhar Patel

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Google Summer of Code Mentee 

Open Source Developer 

Ex-Infosys, Codemate AI 

Agenda

WTH are vscode extenstions?

Why Build You Own AI Assitants

Phases of building one

“Hello World”

Git Command Generator
with Natural language

Hello, VS Code !

Pre Requisites

Node.js v18.0+ 

Visual Studio Code (Latest Version) 

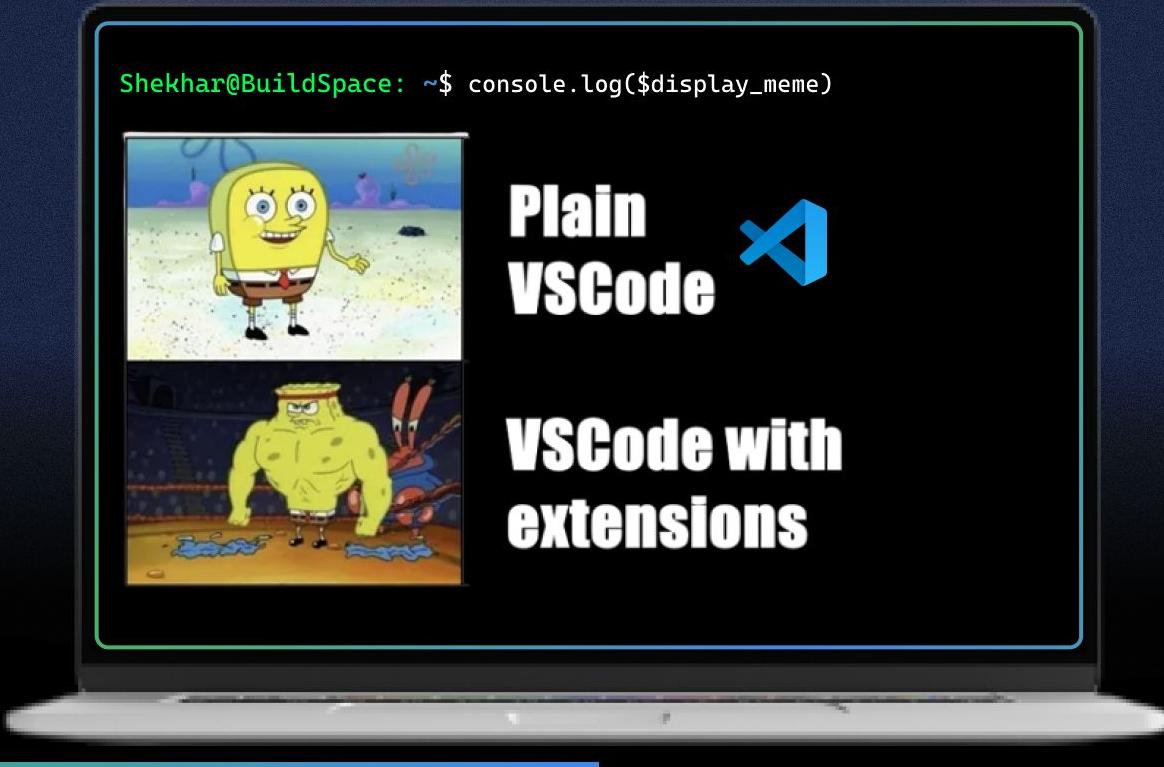
Yeoman Generator

\$ ~ npm install -g yo generator-code



01

WTH are vscode extenstions?



02

Why Build You Own AI Assitants



Even Why ????!



A Random Link !?

<https://www.continue.dev/>





Meet Cody AI

03

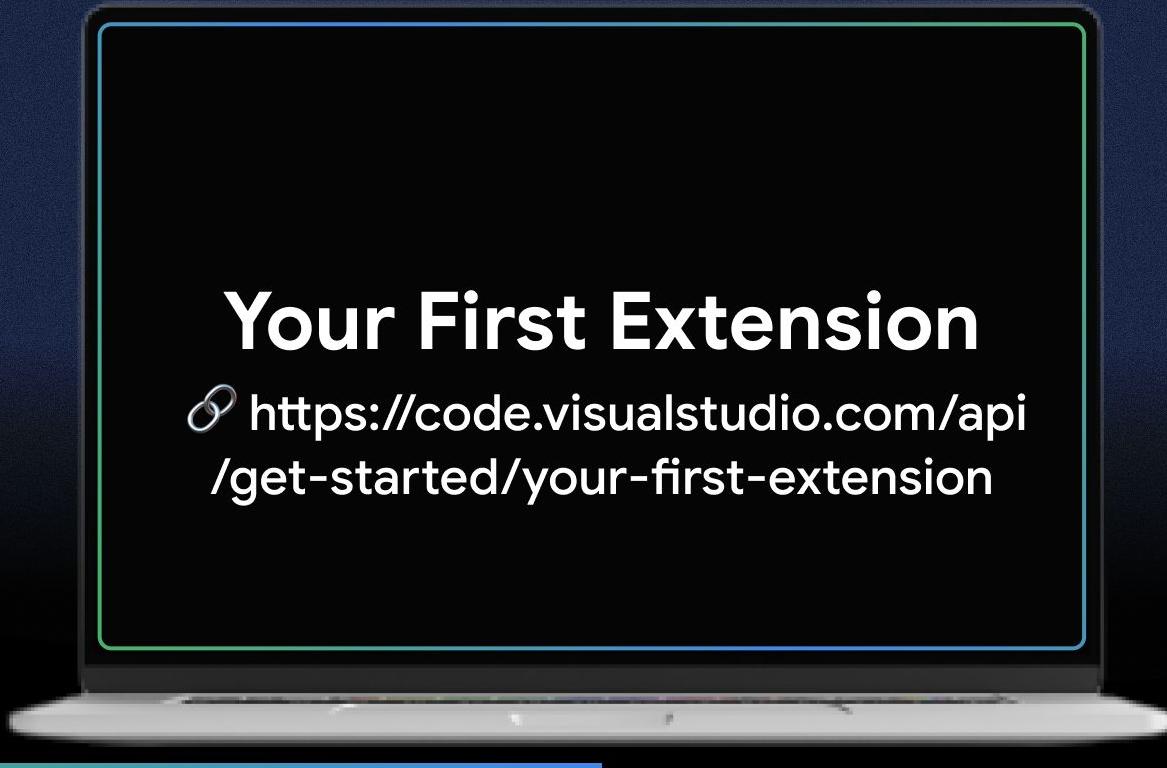
Phases of Building one 

Resources To Follow Along

 <https://bit.ly/3WLpgwY>

Extension API

 code.visualstudio.com/api

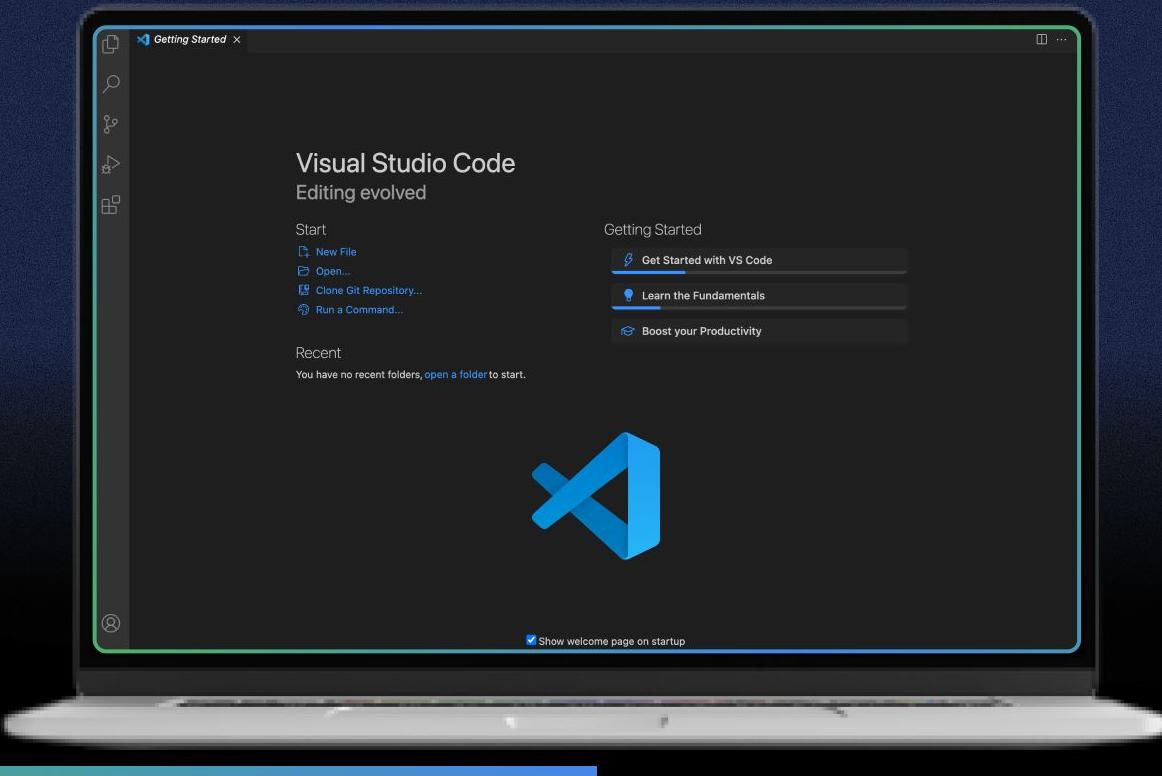


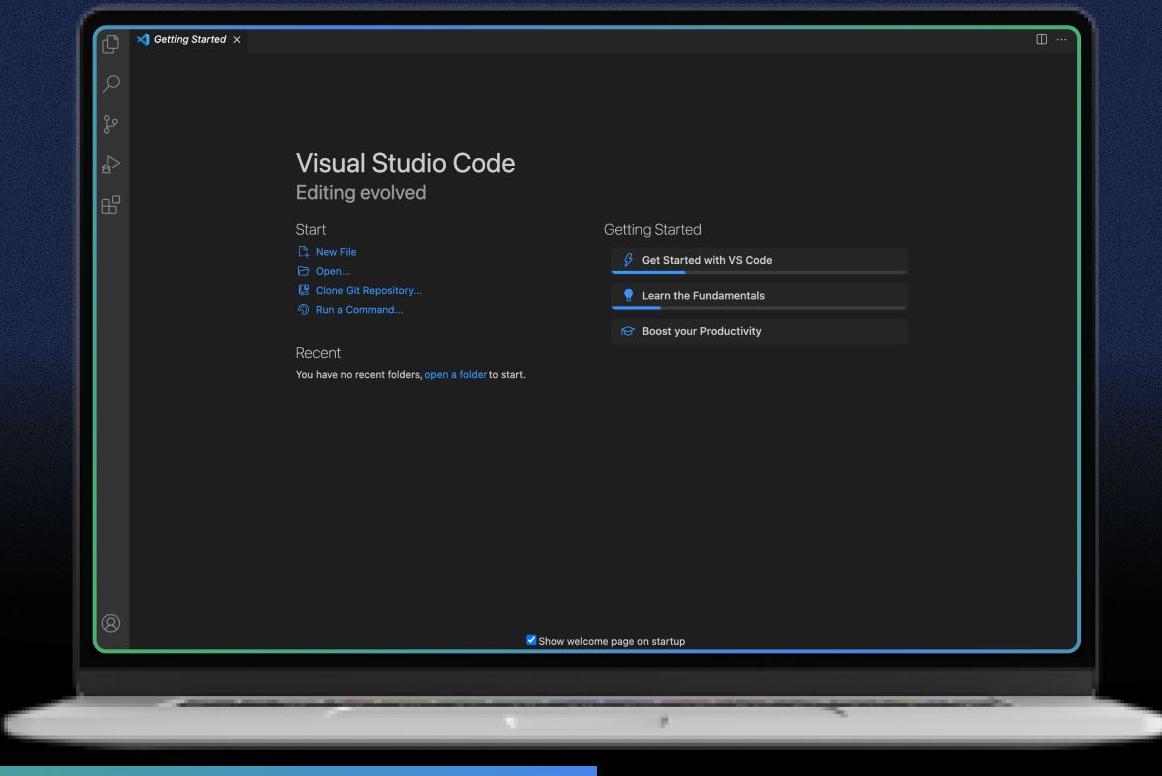
04

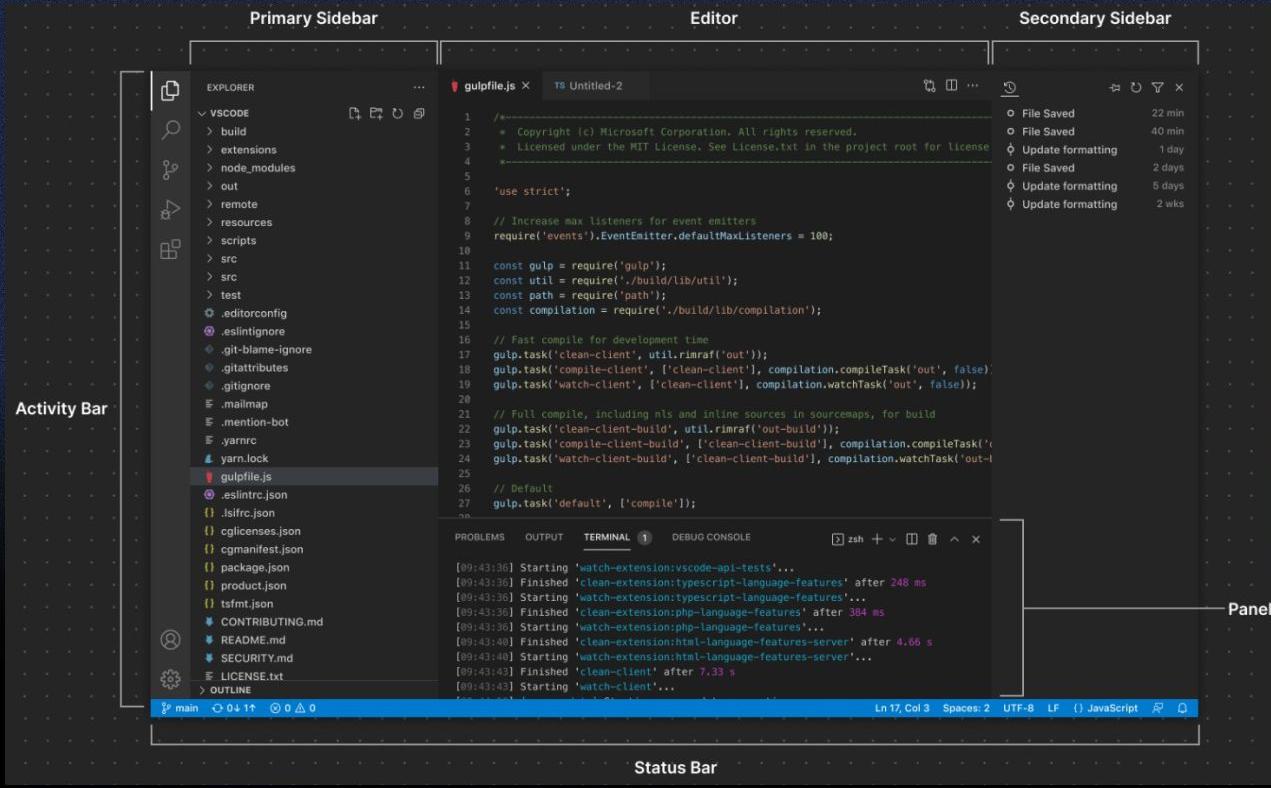
“Hello World”

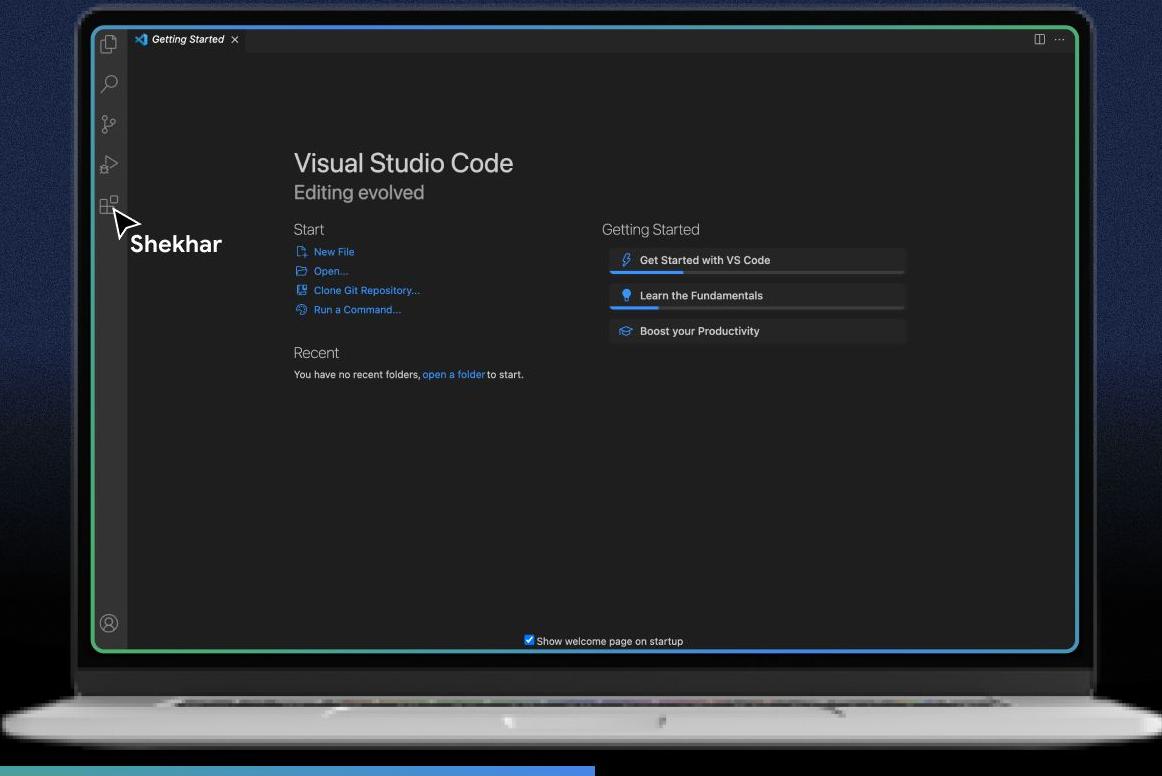


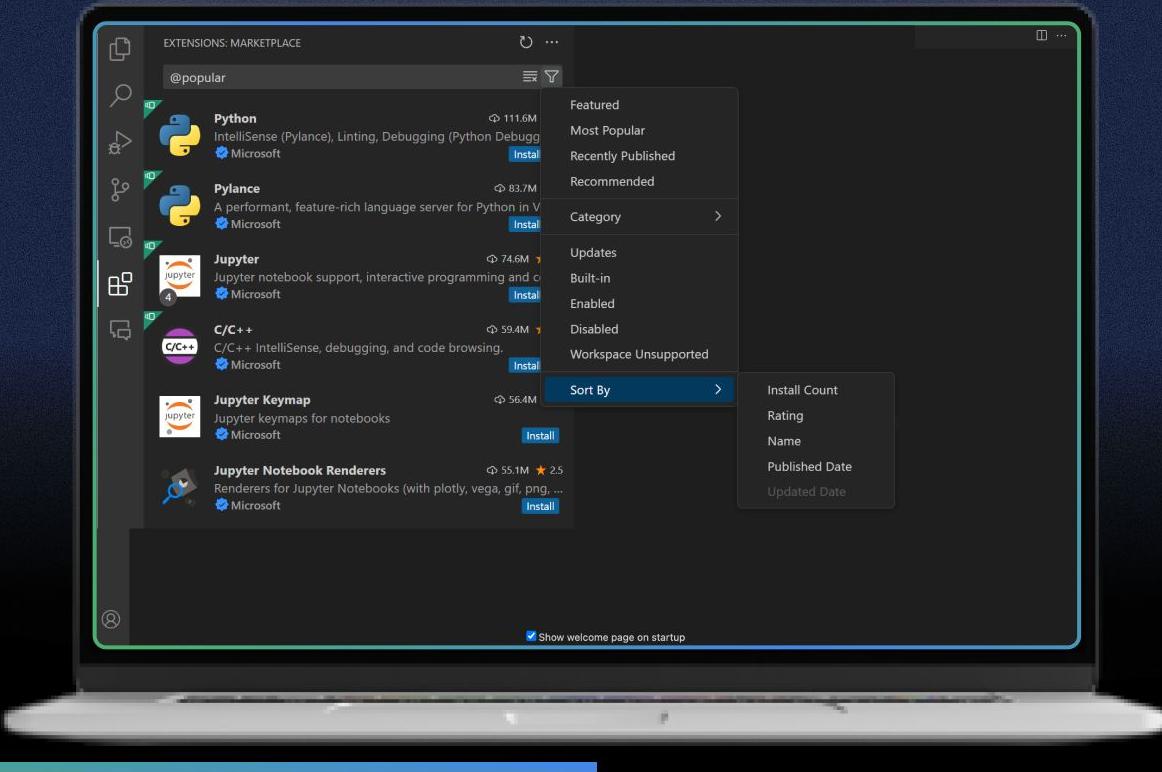
Let's do a Quick
Walkthrough 



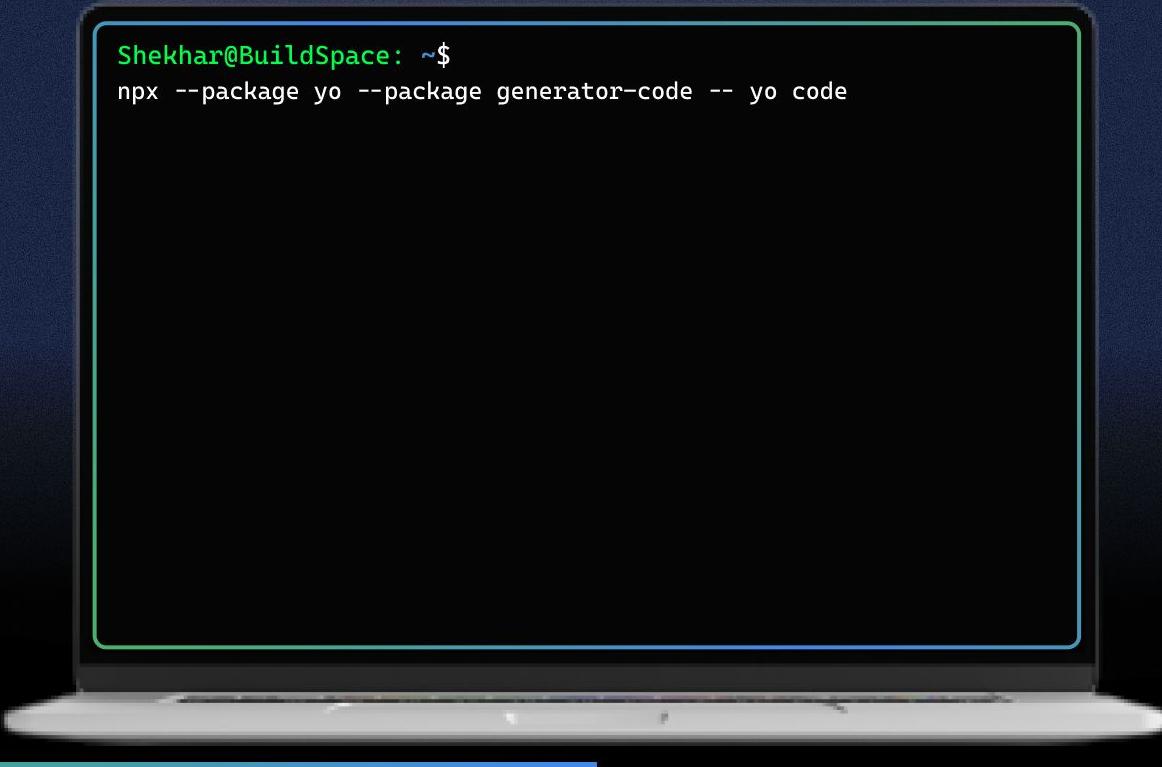






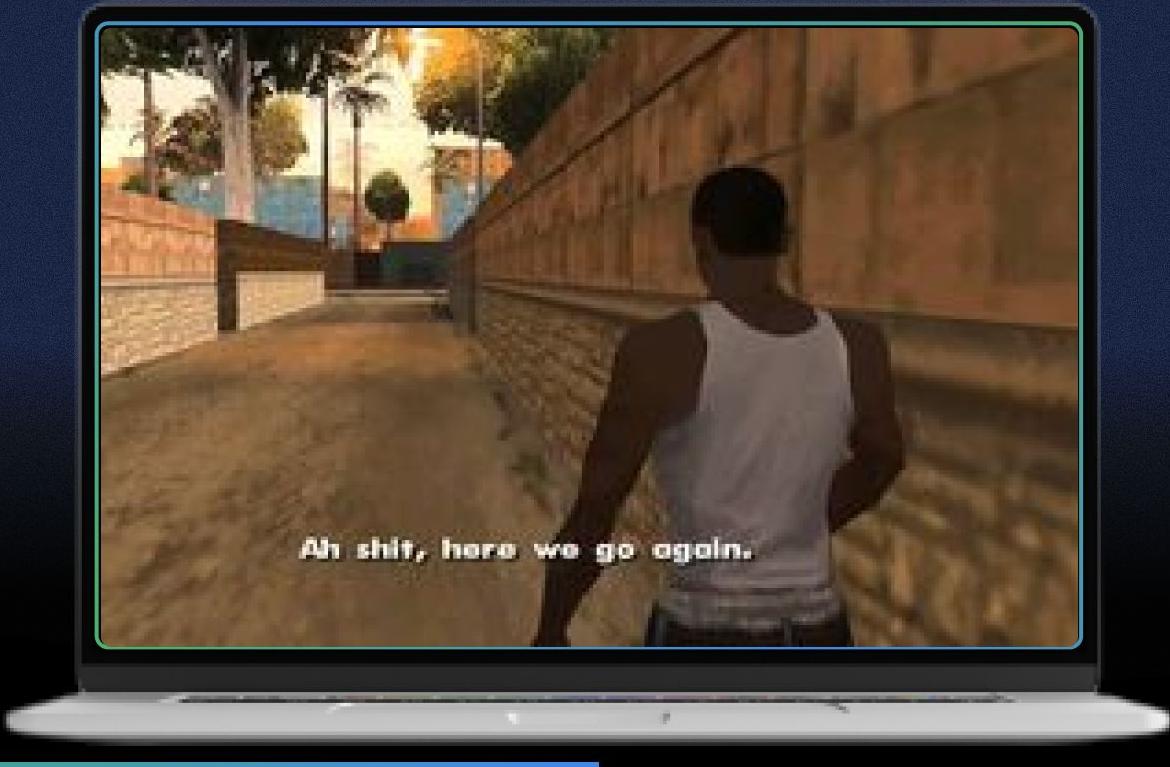






```
Shekhar@BuildSpace: ~$  
npx --package yo --package generator-code -- yo code  
  
Shekhar@BuildSpace: ~$  
npm install --global yo generator-code
```

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npx --package yo --package generator-code -- yo code  
  
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npm install --global yo generator-code  
  
Shekhar@BuildSpace: ~$  
yo code
```





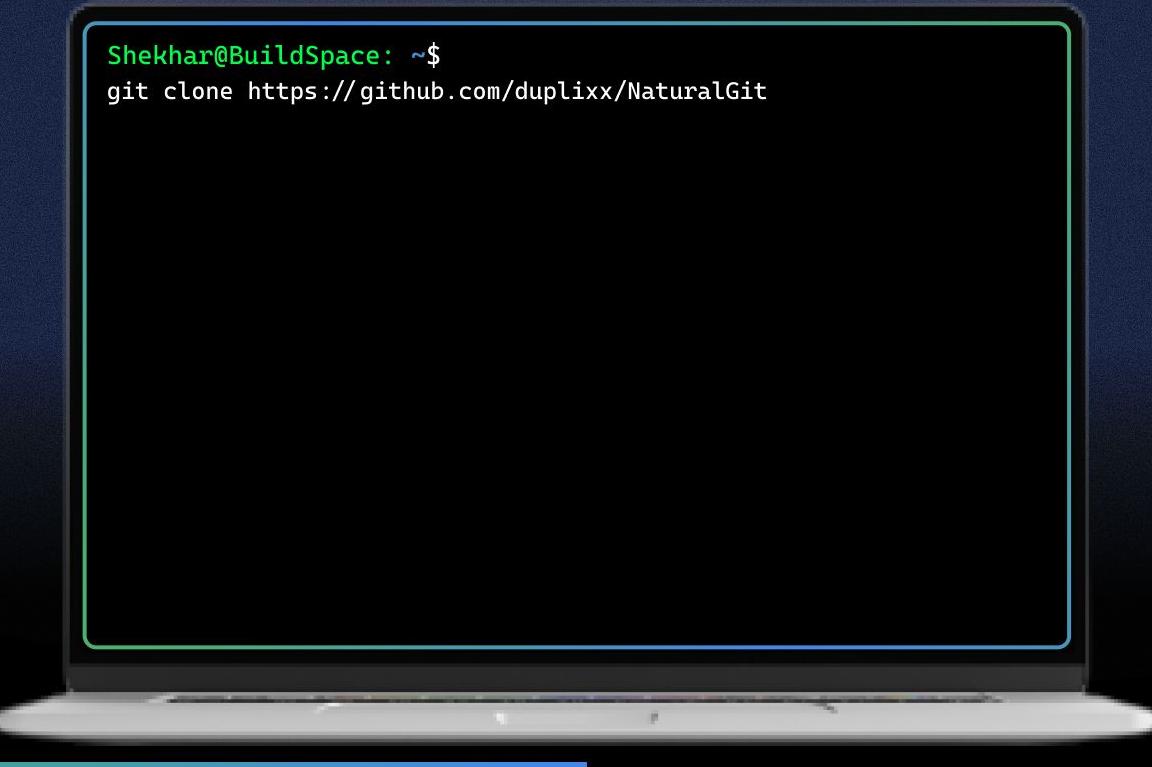
Starter Template



[https://github.com/microsoft/
vscode-extension-samples/tree/main/helloworld-sample](https://github.com/microsoft/vscode-extension-samples/tree/main/helloworld-sample)







```
Shekhar@BuildSpace: ~$  
git clone https://github.com/duplixx/NaturalGit
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Shekhar@BuildSpace: ~$  
cd NaturalGit
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git clone https://github.com/duplixx/NaturalGit  
  
Shekhar@BuildSpace: ~$  
cd NaturalGit  
  
Shekhar@BuildSpace: ~$  
npm install
```

Commands to use Extension Development

Shekhar@BuildSpace: ~\$

Build Commands

bash

npm run compile
npm run watch
npm run package
npm run lint
npm test

Compile TypeScript
Watch mode for development
Create production build
Check code quality
Run tests



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Git Command Generator with Natural Language



Features of Git Command Generator

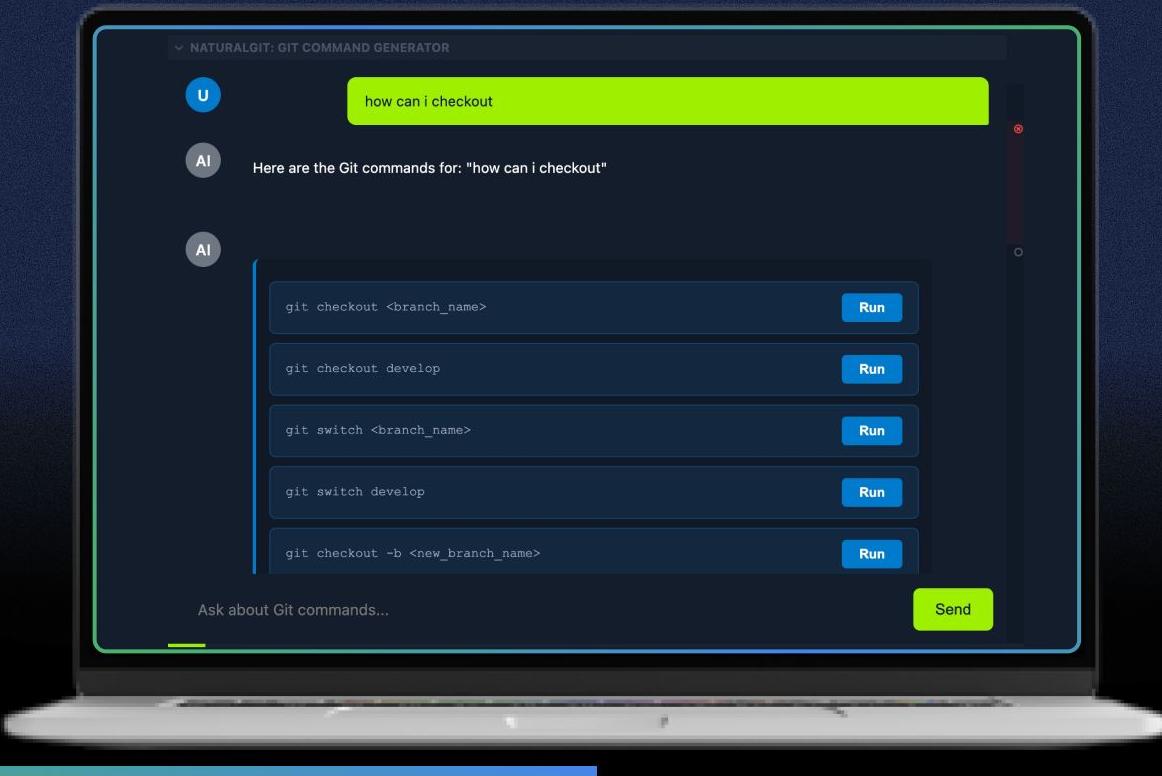
Git Command Generator

Converts natural language to Git commands

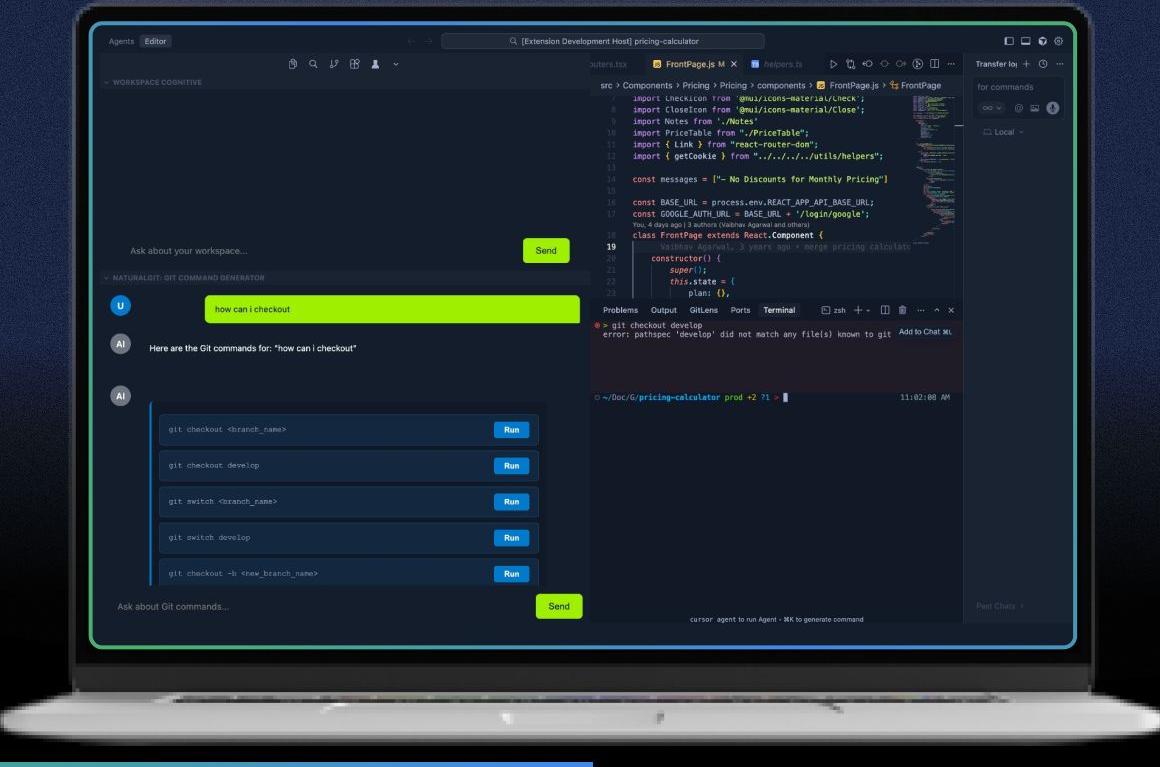
Git Command Generator

Converts natural language to Git commands

Executable command buttons



 Google Developer Groups
New Delhi



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Workspace Cognitive vscode Extension



What do we Have In Workspace Cognitive Assistant

Workspace Cognitive Assistant

Analyzes workspace context

Workspace Cognitive Assistant

Analyzes workspace context

Understands file structure

Workspace Cognitive Assistant

Analyzes workspace context

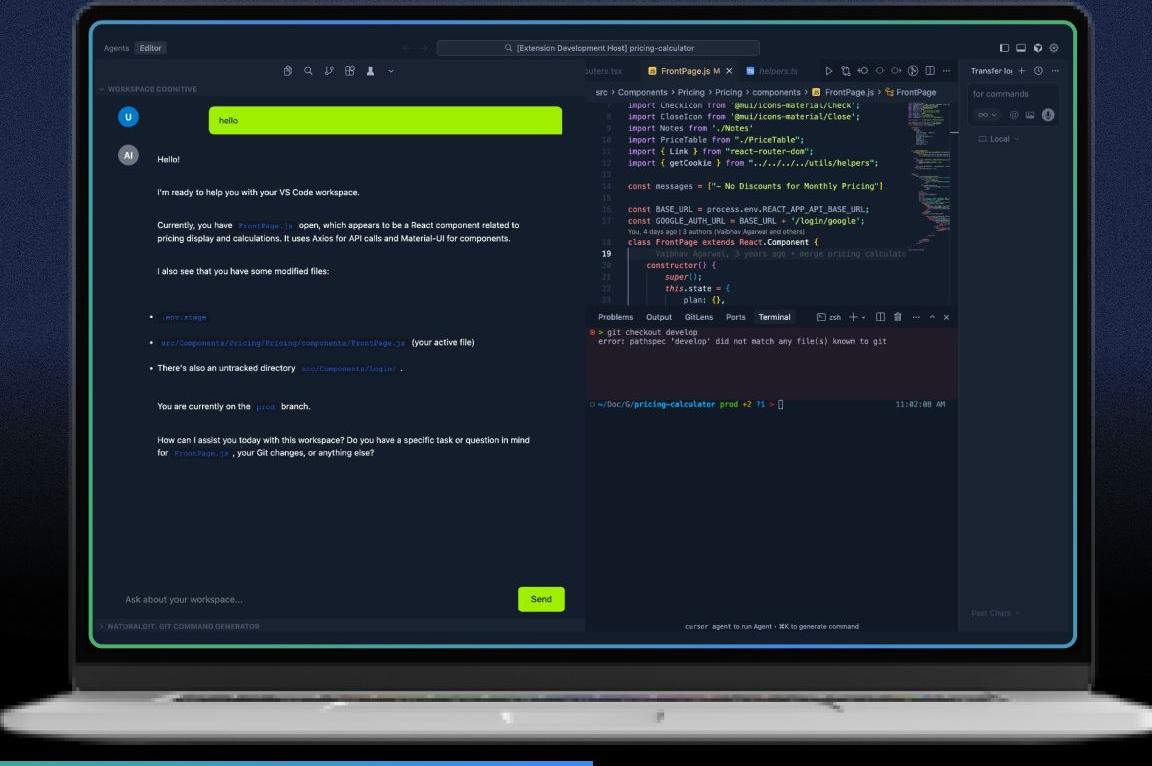
Understands file structure

Provides intelligent responses



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What's Where !??

Git Command Generator

```
> src/git-command-generator.ts
```

Workspace Cognitive Assistant

```
> src/workspace-cognitive.ts
```





@duplixx



@_duplixx



Shekhar Patel



Shekhar

Use Code:

BUILDSPACE

Let's connect

Chai break chat

Shy to talk? drop message

Opens Source Everything

Crafting an Impactful Resume



topmate.io/duplixx



The Design Guy !



~VT



Thank You !!!



Thank You !!!

You all are Great Builders 💪🔨



