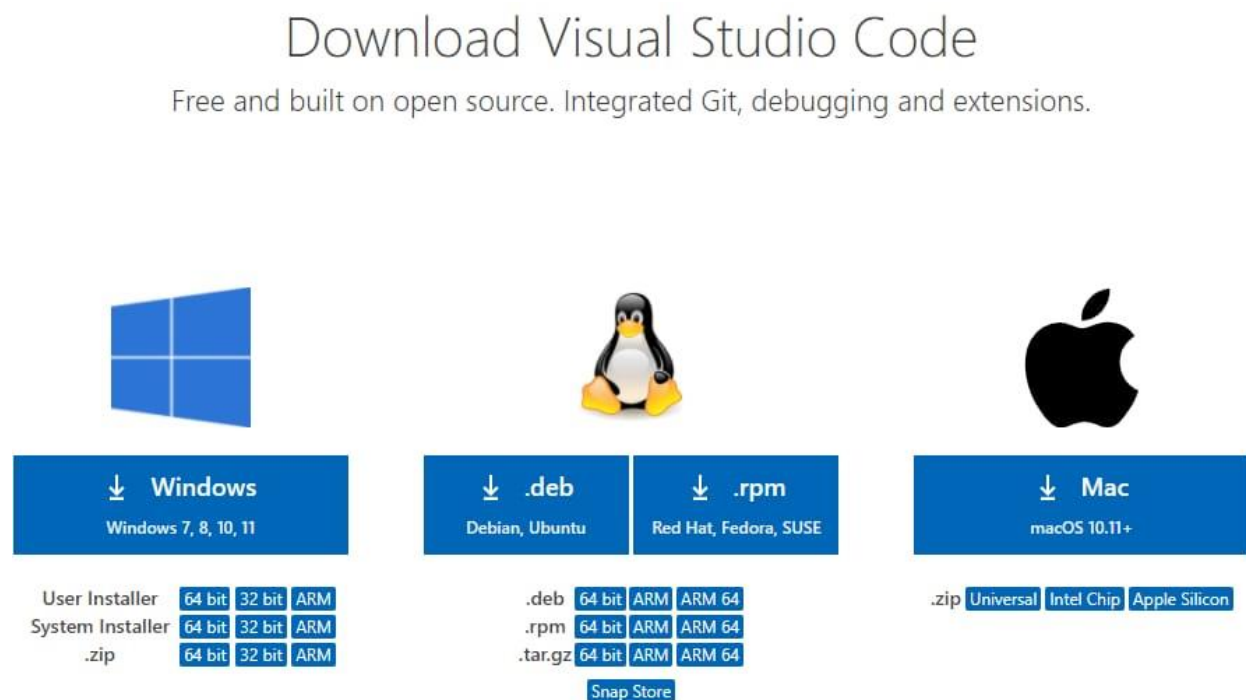


Dickson Siele

Assignment week 2

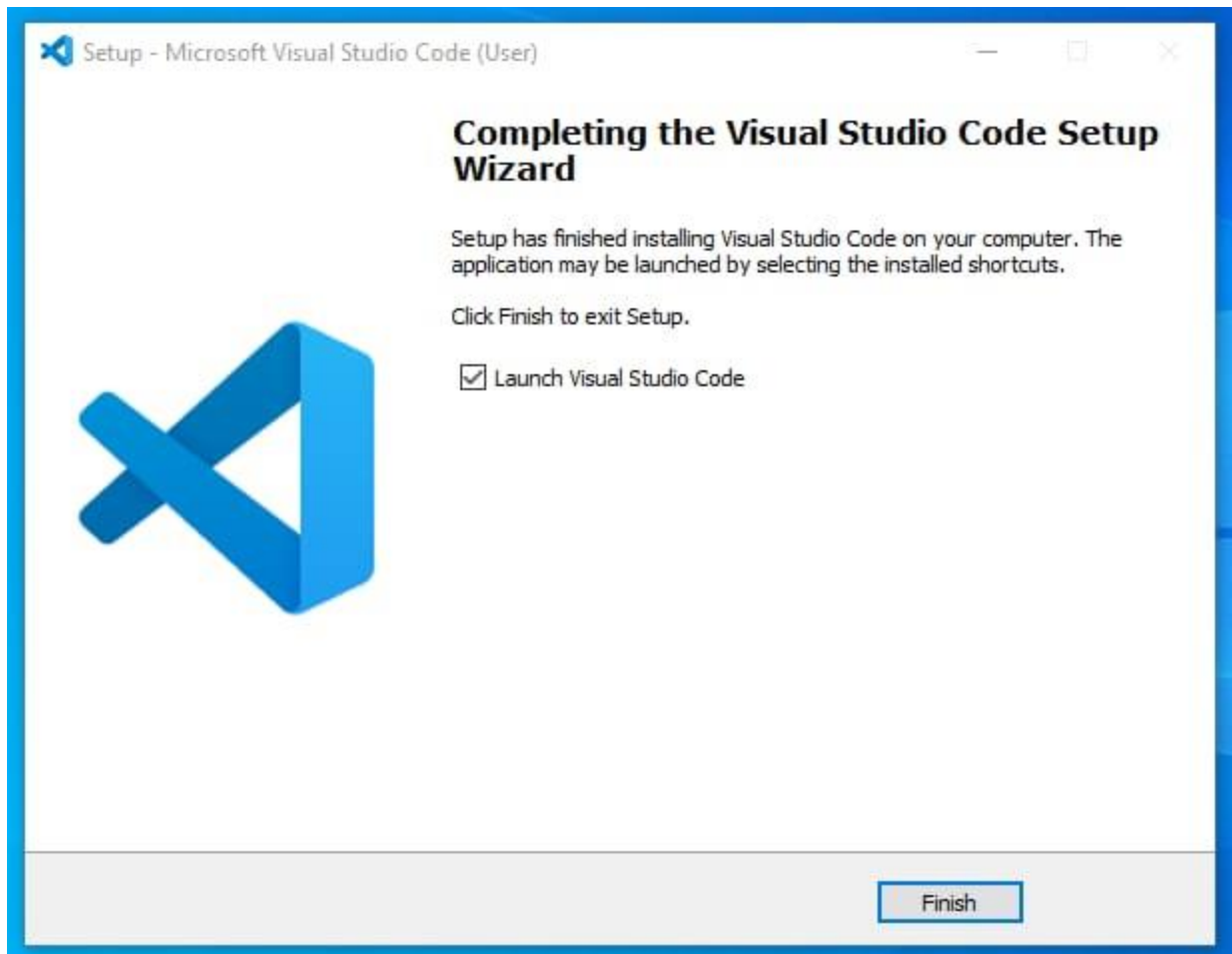
Installation of VS Code on Windows 11

- Visit the official [Visual Studio Code website](https://code.visualstudio.com/Download).
- Click the download button for Windows.
- Run the downloaded installer (e.g., VSCodeSetup-{version}.exe).
- Accept the license agreement, choose the installation location, and install.
- Launch VS Code from the Start Menu or desktop icon.



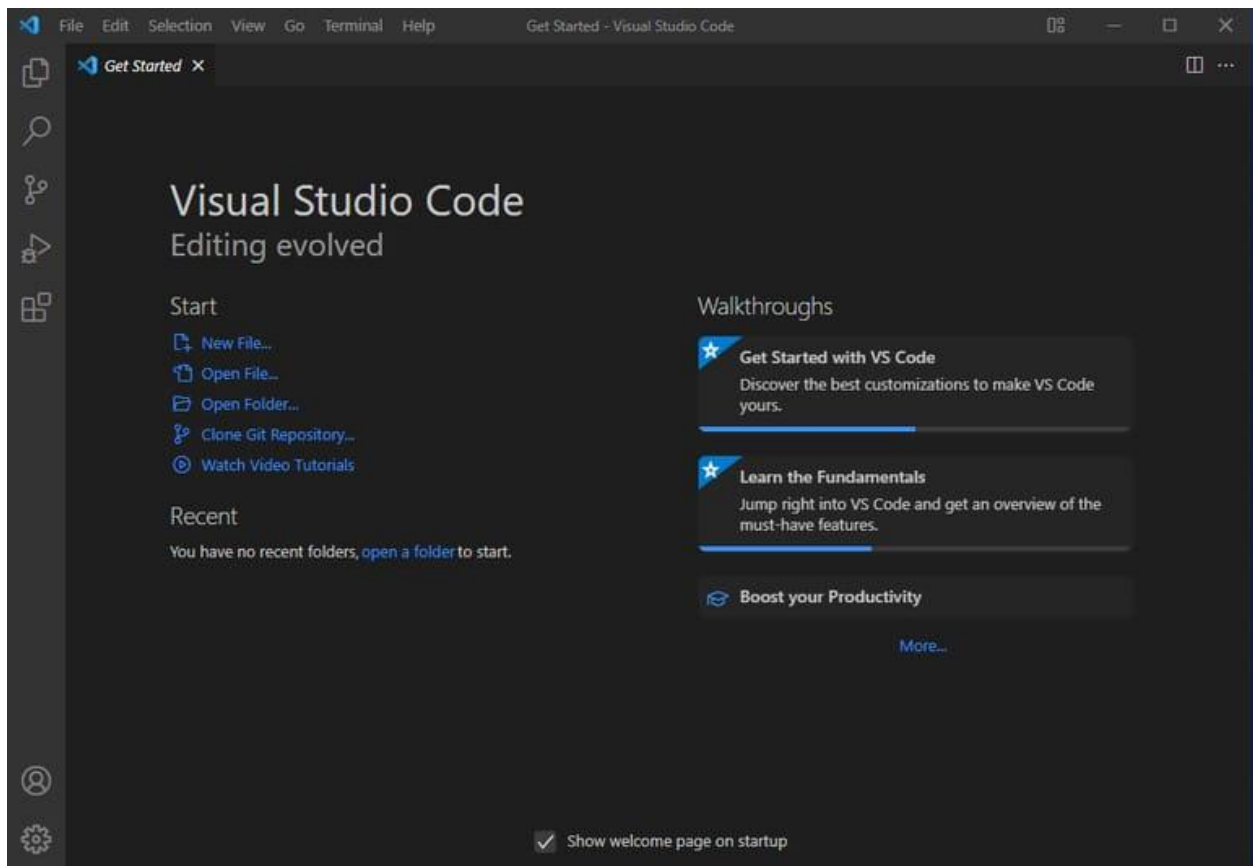
First-time Setup

- Customize your settings for an optimal coding environment:
 - Install essential extensions (e.g., Python, GitLens, Live Server).
 - Set up keybindings, themes, and font size.
 - Configure workspace-specific settings.



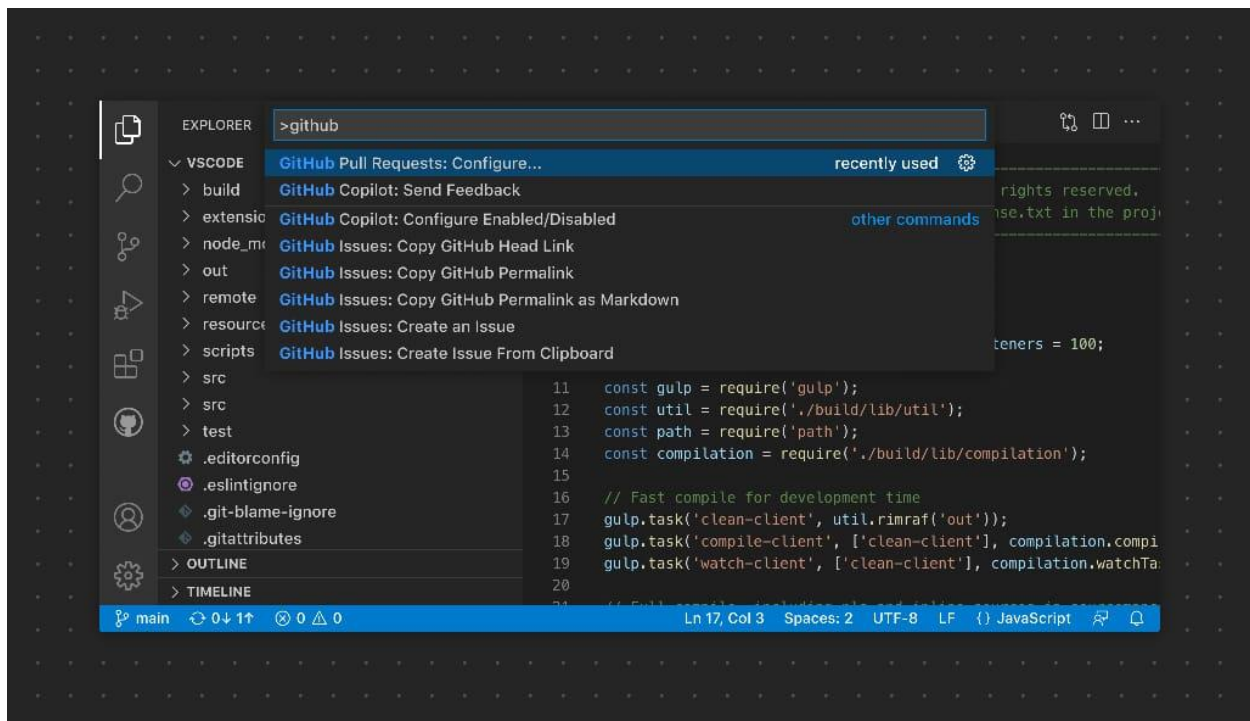
User Interface Overview

- *Editor*: Main area for editing files.
- *Primary Side Bar*: Contains views like the Explorer (file navigation).
- *Status Bar*: Displays project information and file details.
- *Activity Bar*: On the left, switches between views (e.g., Explorer, Git).
- *Panel*: Below the editor, shows output, debug info, and an integrated terminal.



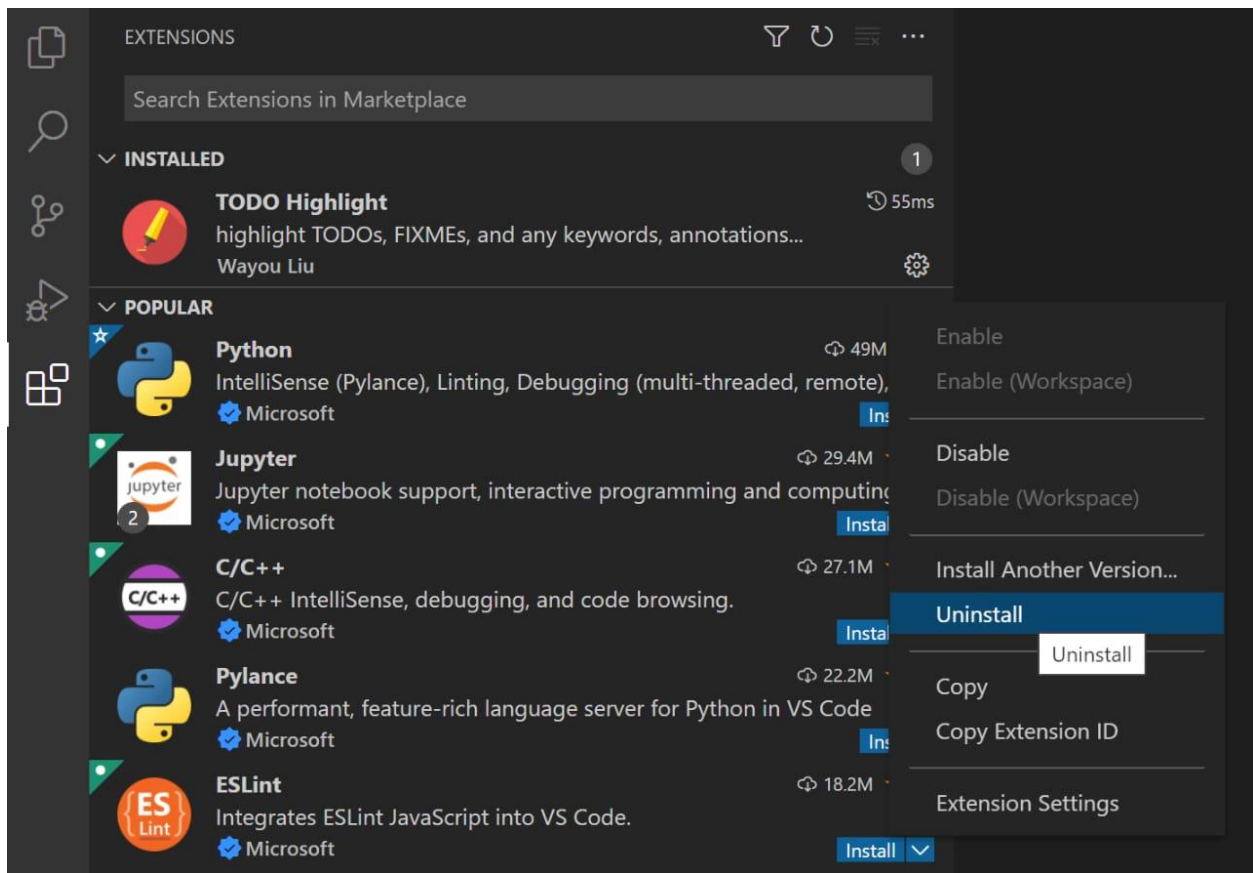
Command Palette

- The Command Palette lets you access commands, settings, and extensions.
- Open it with Ctrl+Shift+P (Windows/Linux) or Cmd+Shift+P (Mac).
- Examples: Install extensions, change themes, run tasks.



Extensions in VS Code

- Extensions enhance functionality (e.g., language support, debugging tools).
- Find and install extensions from the [VS Code Marketplace](<https://marketplace.visualstudio.com/>).
- Essential extensions for web development: "Live Server," "ESLint," "Prettier."



Integrated Terminal

- Open the integrated terminal with Ctrl+Backtick (Windows/Linux) or Cmd+Backtick (Mac).
- Advantages: Seamless integration, no need for an external terminal.

```
TERMINAL bash - hello-world + - [ ] [ ] ^ X
~ took 508ms
● > mkdir hello-world && cd hello-world

~/hello-world
● > git init
Initialized empty Git repository in /Users/daimms/hello-world/.git/

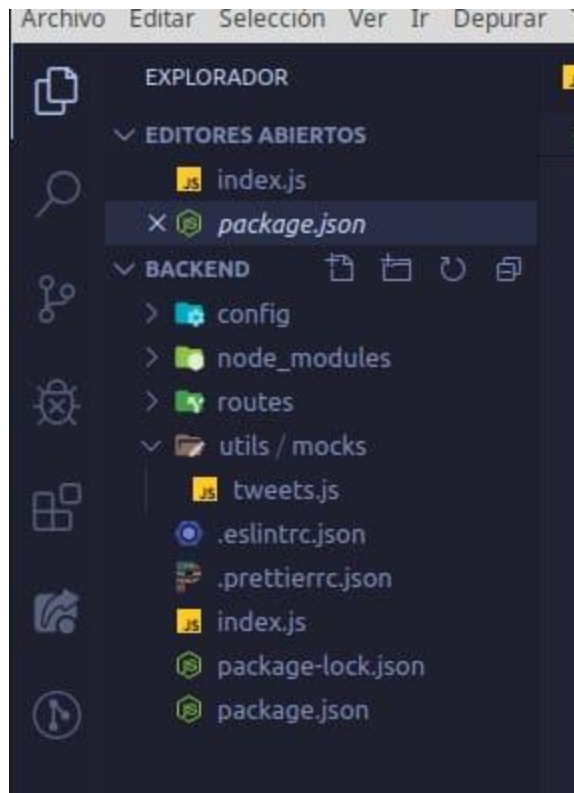
~/hello-world ? main
● > echo "test" > test_file

~/hello-world ? main [?]
● > git add . && git commit -m "Hello world!"
[main (root-commit) c1c1283] Hello world!
1 file changed, 1 insertion(+)
create mode 100644 test_file

~/hello-world ? main
○ >
```

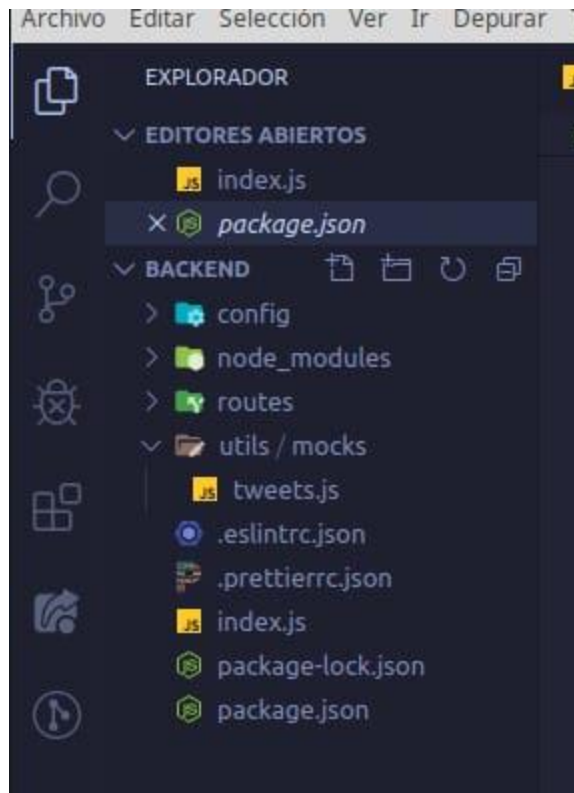
File and Folder Management

- Create files/folders in Explorer (Side Bar).
- Navigate efficiently using the Explorer view.
- Use tabs for open files (Tabs).



Settings and Preferences

- Customize settings in settings.json (accessible via the gear icon in the Status Bar).
- Examples:
 - Change theme: "workbench.colorTheme"
 - Adjust font size: "editor.fontSize"
 - Modify keybindings: "keybindings.json"



Debugging in VS Code

- Set up debugging:
 - Create a launch configuration (e.g., for Node.js, Python).
 - Add breakpoints in your code.
- Debug features: Inspect variables, step through code, watch expressions.


```
DEBUG CONSOLE
node --debug-brk=43743 --nolazy fib.js
Debugger listening on port 43743
89

enabled
false
7 + 8
15
range
Object
  child: Object
    endLineNumber: 8
    startColumn: 123
    startLineNumber: 7
    te: "11"
    te6: "11"
    text: "lineContext.getTokenEndIndex(tokenIndex) + 1"
  fib(15)
987
> |
```

Using Source Control (Git):

- Initialize a Git repository:
- Open a folder in VS Code.
- Click the Git icon in the Activity Bar.
- Initialize repository.
- Make commits, push changes to GitHub.

References

<https://code.visualstudio.com/docs/getstarted/userinterface>

<https://microsoft.github.io/vscode-essentials/en/02-basics.html>