



A large, semi-transparent dark red circle is positioned in the center of the slide, partially overlapping the text area.

# PYTHON BOOTCAMP

[www.jomhack.com](http://www.jomhack.com)

# INSTALLATION



- Python ([python.org/downloads/](https://python.org/downloads/))
- NodeJS ([nodejs.org/en/download/](https://nodejs.org/en/download/))
- VSCode ([code.visualstudio.com/download](https://code.visualstudio.com/download))
- Gemini CLI ([github.com/google-gemini/gemini-cli](https://github.com/google-gemini/gemini-cli))

# PYTHON

## 1. Select your respective Operating System(Windows/mac)



[HTTPS://WWW.PYTHON.ORG/DOWNLOADS/RELEASE/PYTHON-31210/](https://www.python.org/downloads/release/python-31210/)

# PYTHON

## 2. Select Python 3.12.10 [Major.Minor.Micro]

- [Python 3.12.10 - April 8, 2025](#)

**Note that Python 3.12.10 cannot be used on Windows 7 or earlier.**

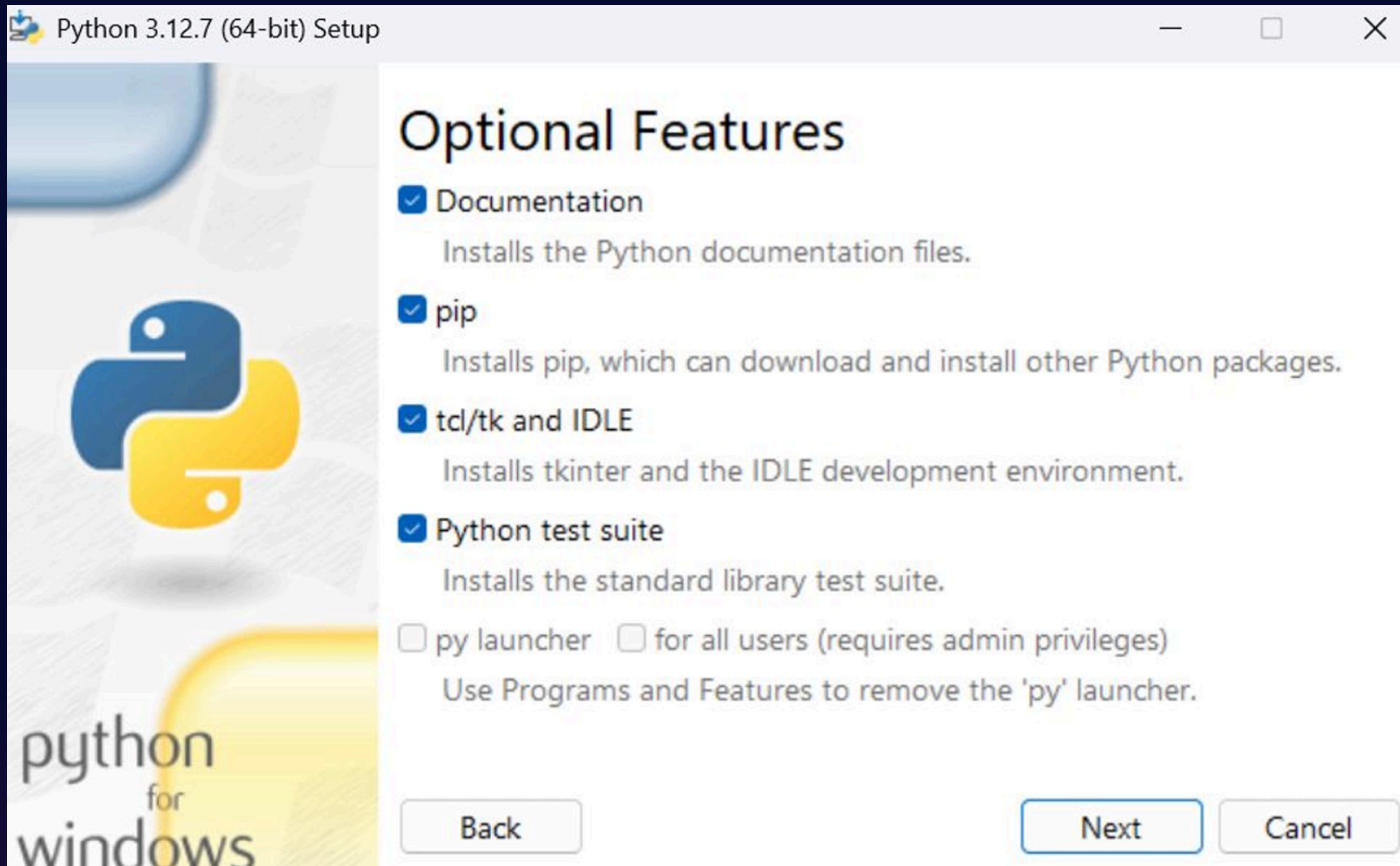
- [Download Windows installer \(64-bit\)](#)
- [Download Windows installer \(32-bit\)](#)
- [Download Windows installer \(ARM64\)](#)
- [Download Windows embeddable package \(64-bit\)](#)
- [Download Windows embeddable package \(32-bit\)](#)
- [Download Windows embeddable package \(ARM64\)](#)

# PYTHON

## 3. Select package according to your device bit(64/32) for Windows

Version	Operating System	Description	MD5 Sum	File Size	GPG	Sigstore	SBOM
<a href="#">Gzipped source tarball</a>	Source release		35c03f014408e26e2b06d576c19cac54	25.9 MB	<a href="#">SIG</a>	<a href="#">.sigstore</a>	<a href="#">SPDX</a>
<a href="#">XZ compressed source tarball</a>	Source release		0c0a6cce86d7611aed691d61e0599de0	19.6 MB	<a href="#">SIG</a>	<a href="#">.sigstore</a>	<a href="#">SPDX</a>
<a href="#">macOS 64-bit universal2 installer</a>	macOS	for macOS 10.13 and later	8f4989592c9412e51fcad70273442c22	43.6 MB	<a href="#">SIG</a>	<a href="#">.sigstore</a>	
<a href="#">Windows installer (64-bit)</a>	Windows	Recommended	5eddb0b6f12c852725de071ae681dde4	25.7 MB	<a href="#">SIG</a>	<a href="#">.sigstore</a>	<a href="#">SPDX</a>
<a href="#">Windows installer (32-bit)</a>	Windows		ff3e7e2582811ade44916d9c3d2a64b2	24.5 MB	<a href="#">SIG</a>	<a href="#">.sigstore</a>	<a href="#">SPDX</a>
<a href="#">Windows installer (ARM64)</a>	Windows	Experimental	37df52717faa6c514342b8d43cae7026	25.0 MB	<a href="#">SIG</a>	<a href="#">.sigstore</a>	<a href="#">SPDX</a>
<a href="#">Windows embeddable package (64-bit)</a>	Windows		fe8ef205f2e9c3ba44d0cf9954e1abd3	10.6 MB	<a href="#">SIG</a>	<a href="#">.sigstore</a>	<a href="#">SPDX</a>
<a href="#">Windows embeddable package (32-bit)</a>	Windows		93beb9042be23d7b5cd528fa15e8fea7	9.5 MB	<a href="#">SIG</a>	<a href="#">.sigstore</a>	<a href="#">SPDX</a>
<a href="#">Windows embeddable package (ARM64)</a>	Windows		60ce2b5cb5a4dfcd2873a323ffe541bc	9.9 MB	<a href="#">SIG</a>	<a href="#">.sigstore</a>	<a href="#">SPDX</a>

# PYTHON



# PYTHON

Python 3.12.7 (64-bit) Setup

## Advanced Options

- Install Python 3.12 for all users
- Associate files with Python (requires the 'py' launcher)
- Create shortcuts for installed applications
- Add Python to environment variables
- Precompile standard library
- Download debugging symbols
- Download debug binaries (requires VS 2017 or later)

Customize install location

C:\Users\leecheetat\AppData\Local\Programs\Python\Pyth

You will require write permissions for the selected location.

# NODEJS

## Windows/macOS

1. Go to <https://nodejs.org/en/download/>
2. Download the LTS version (recommended)

**Download Node.js®**

Get Node.js® v22.19.0 (LTS) for Windows using Docker with npm

Info Want new features sooner? Get the [latest Node.js version](#) instead and try the latest improvements!

```
1 # Docker has specific installation instructions for each operating system.
2 # Please refer to the official documentation at https://docker.com/get-started/
3
4 # Pull the Node.js Docker image:
5 docker pull node:22-alpine
6
7 # Create a Node.js container and start a Shell session:
8 docker run -it --rm --entrypoint sh node:22-alpine
9
10 # Verify the Node.js version:
11 node -v # Should print "v22.19.0".
12
13 # Verify npm version:
14 npm -v # Should print "10.9.3".
```

PowerShell Copy to clipboard

Docker is a containerization platform. If you encounter any issues please visit [Docker's website](#) ↗

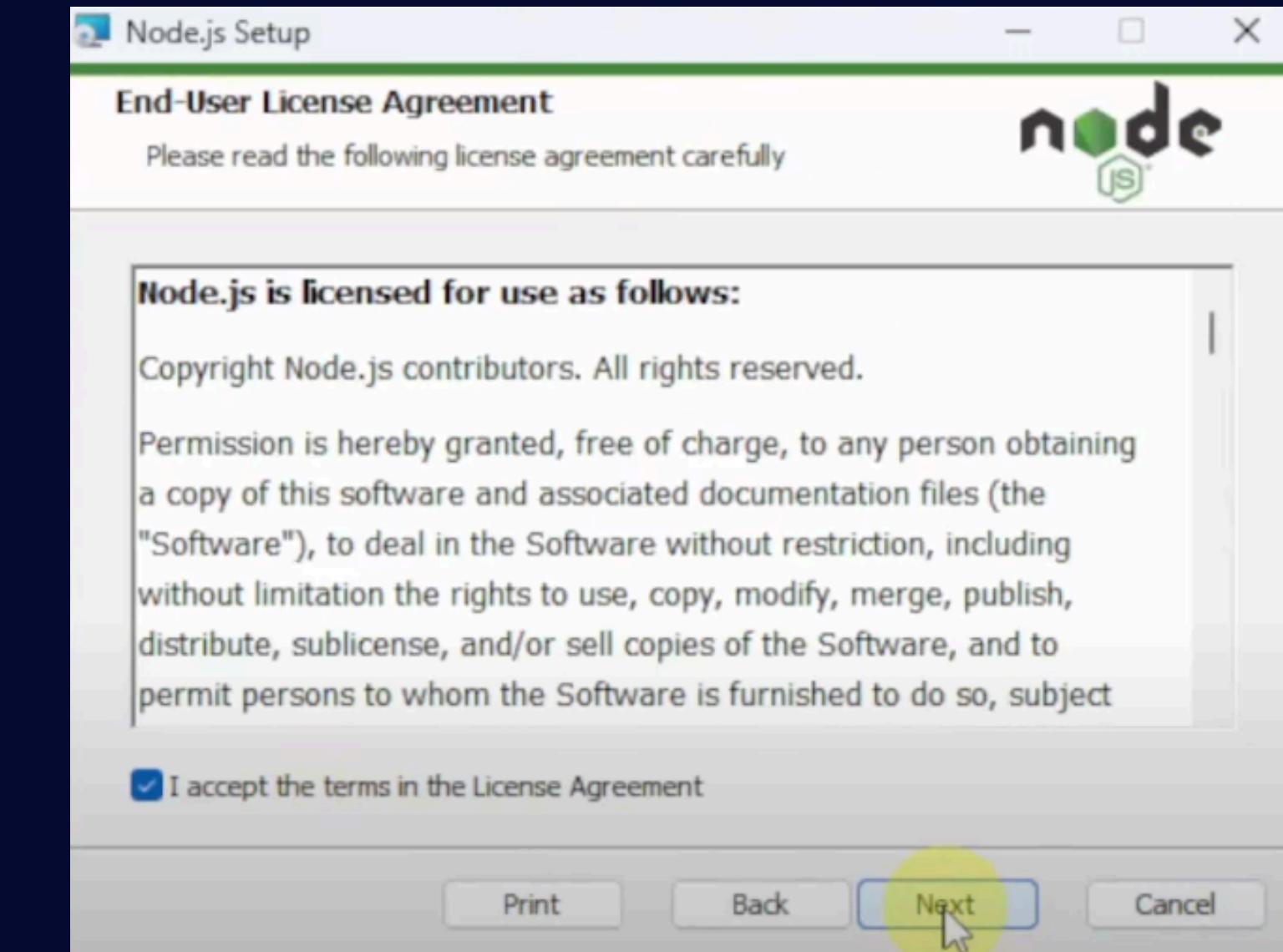
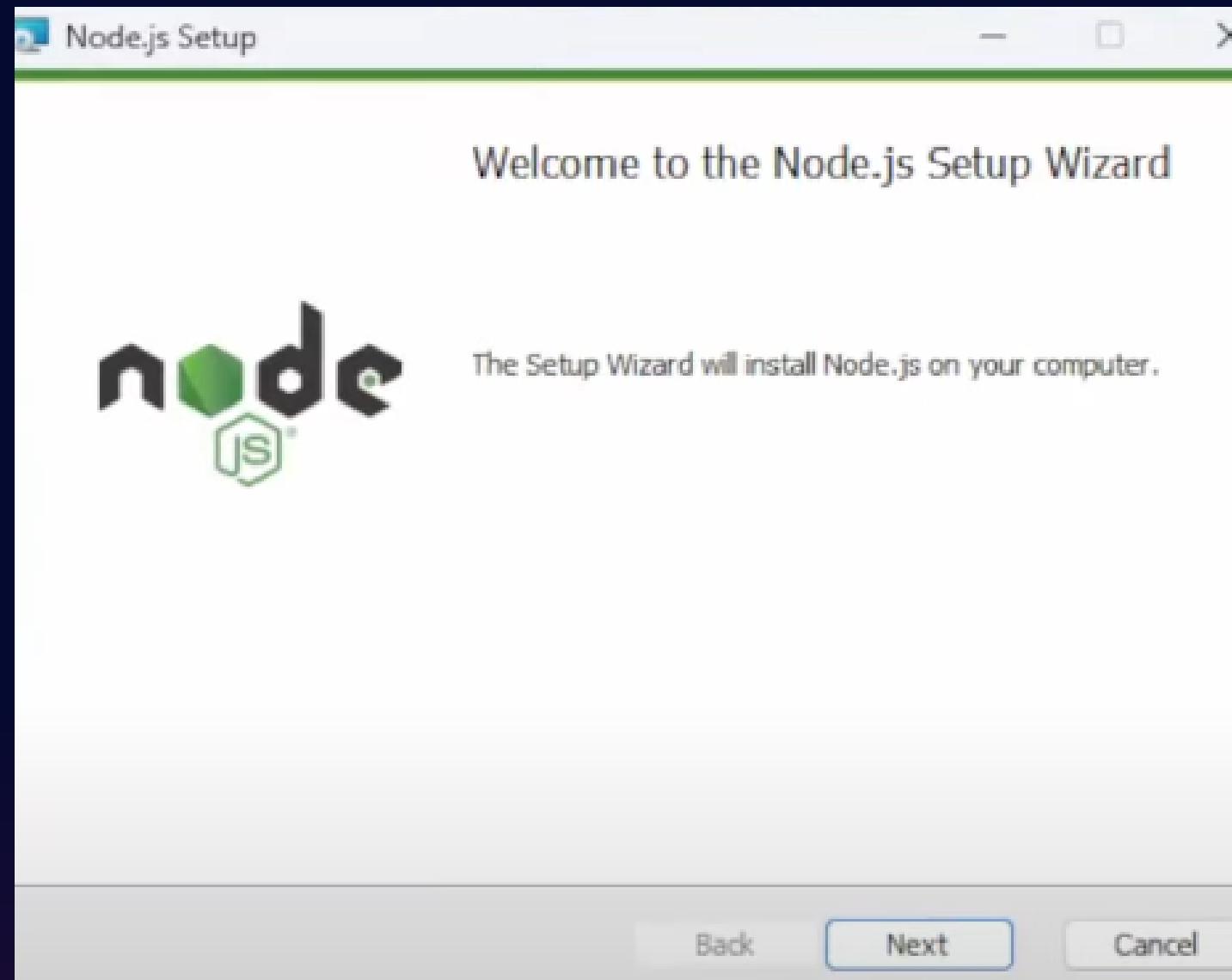
Or get a prebuilt Node.js® for Windows running a x64 architecture.

 Windows Installer (.msi)  Standalone Binary (.zip)

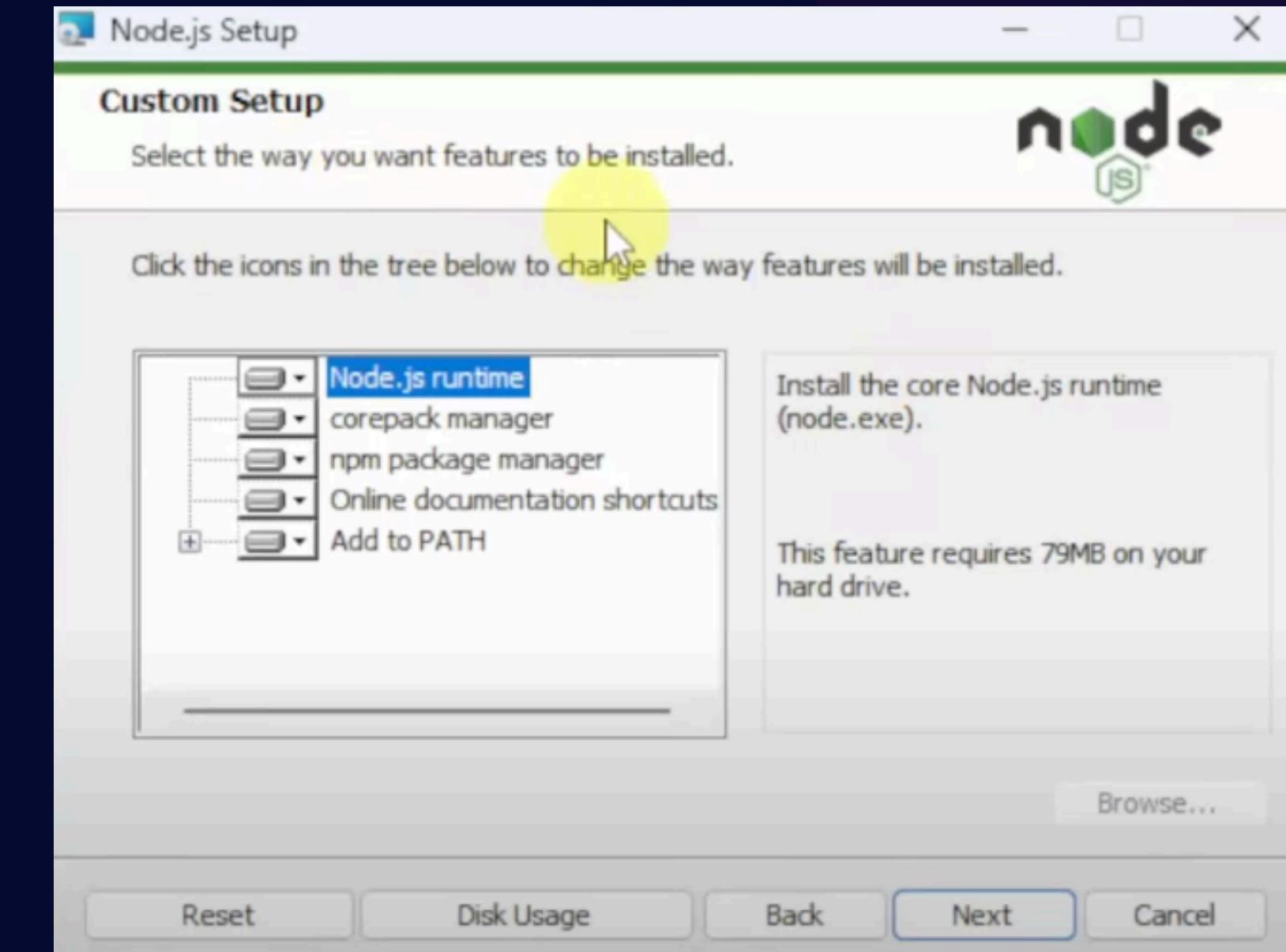
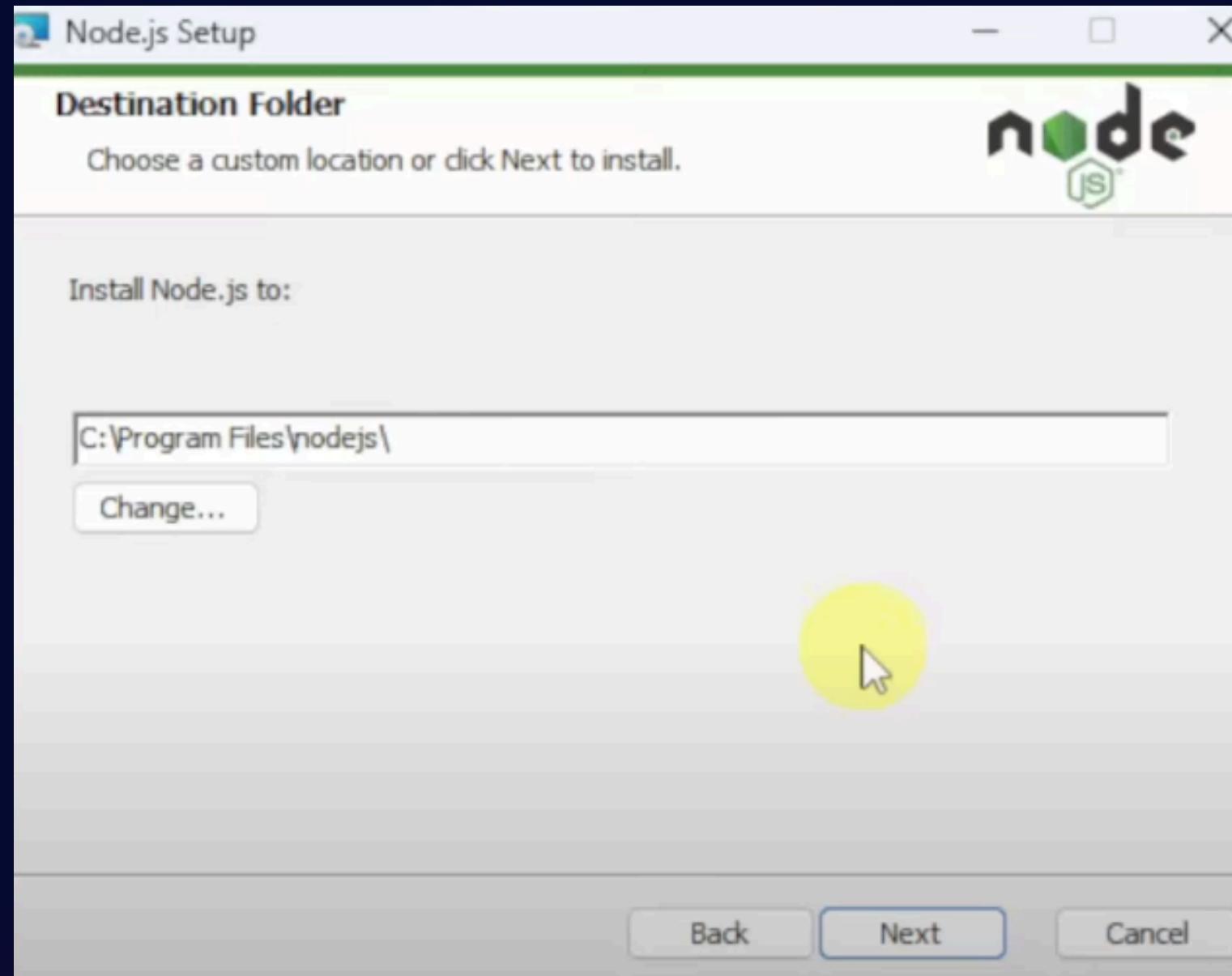
# NODEJS

## Windows/macOS

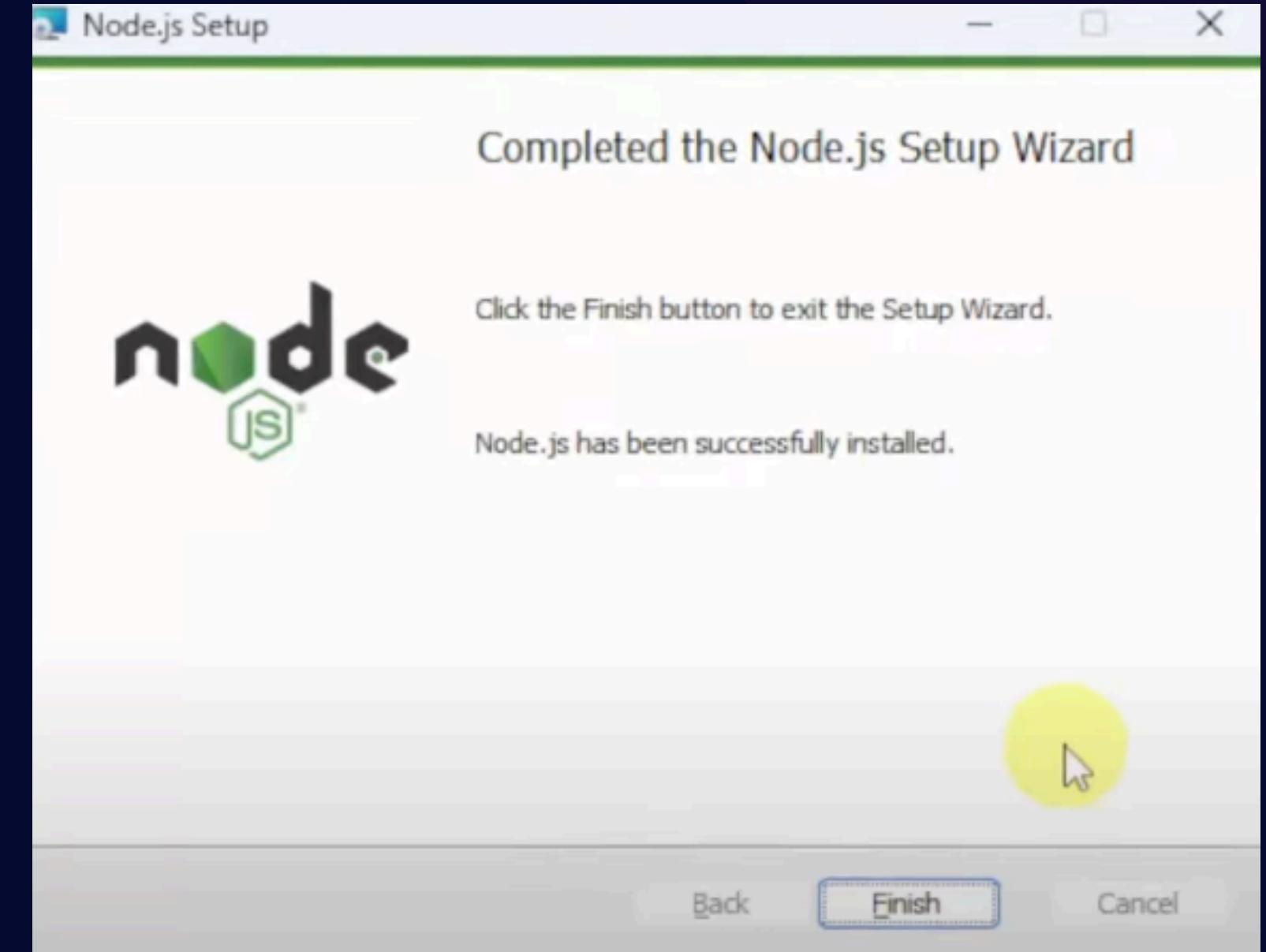
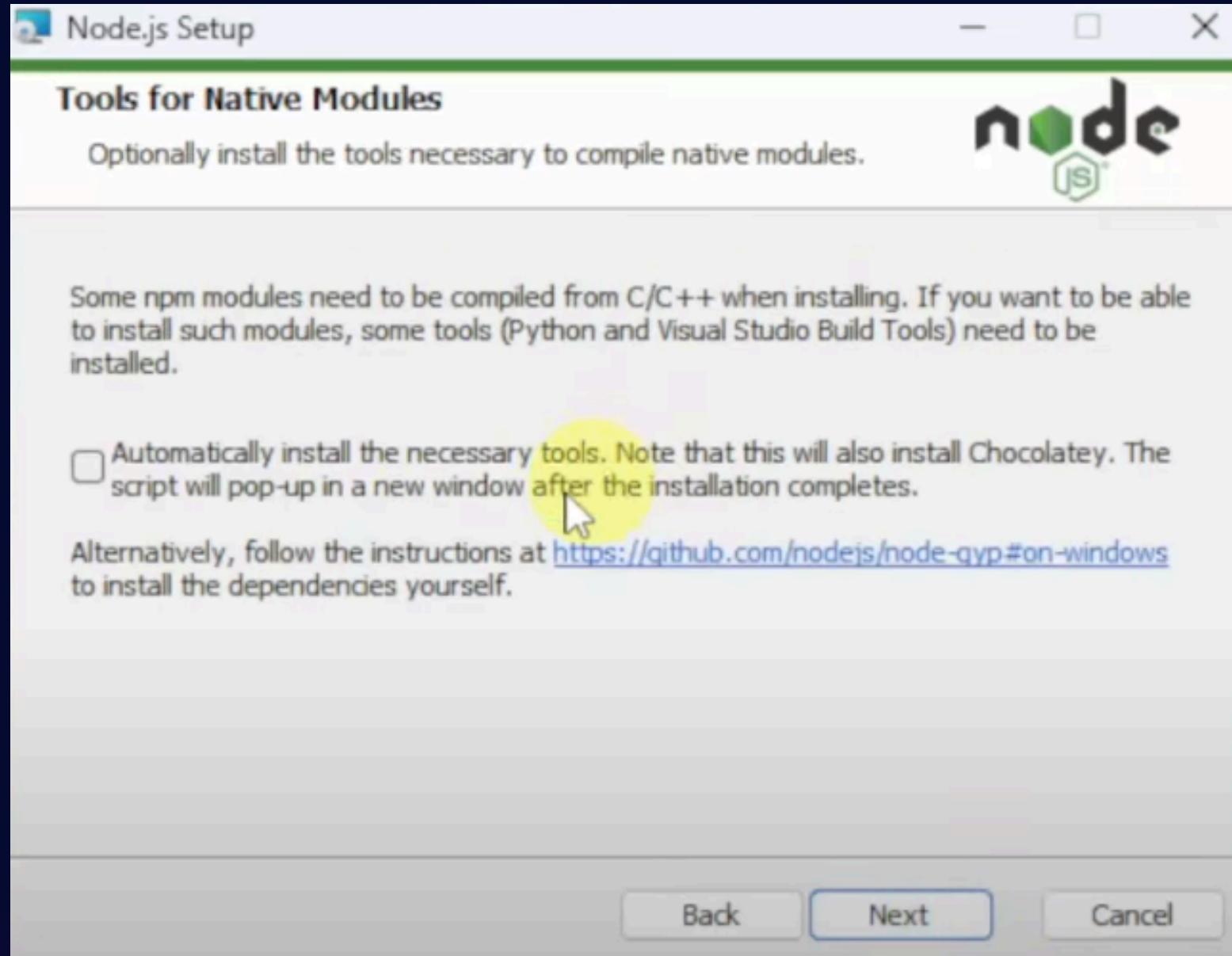
### 3. Run the installer and follow the setup wizard



# NODEJS



# NODEJS



# NODEJS



## Windows/macOS

4. Verify: Open command prompt/terminal and type

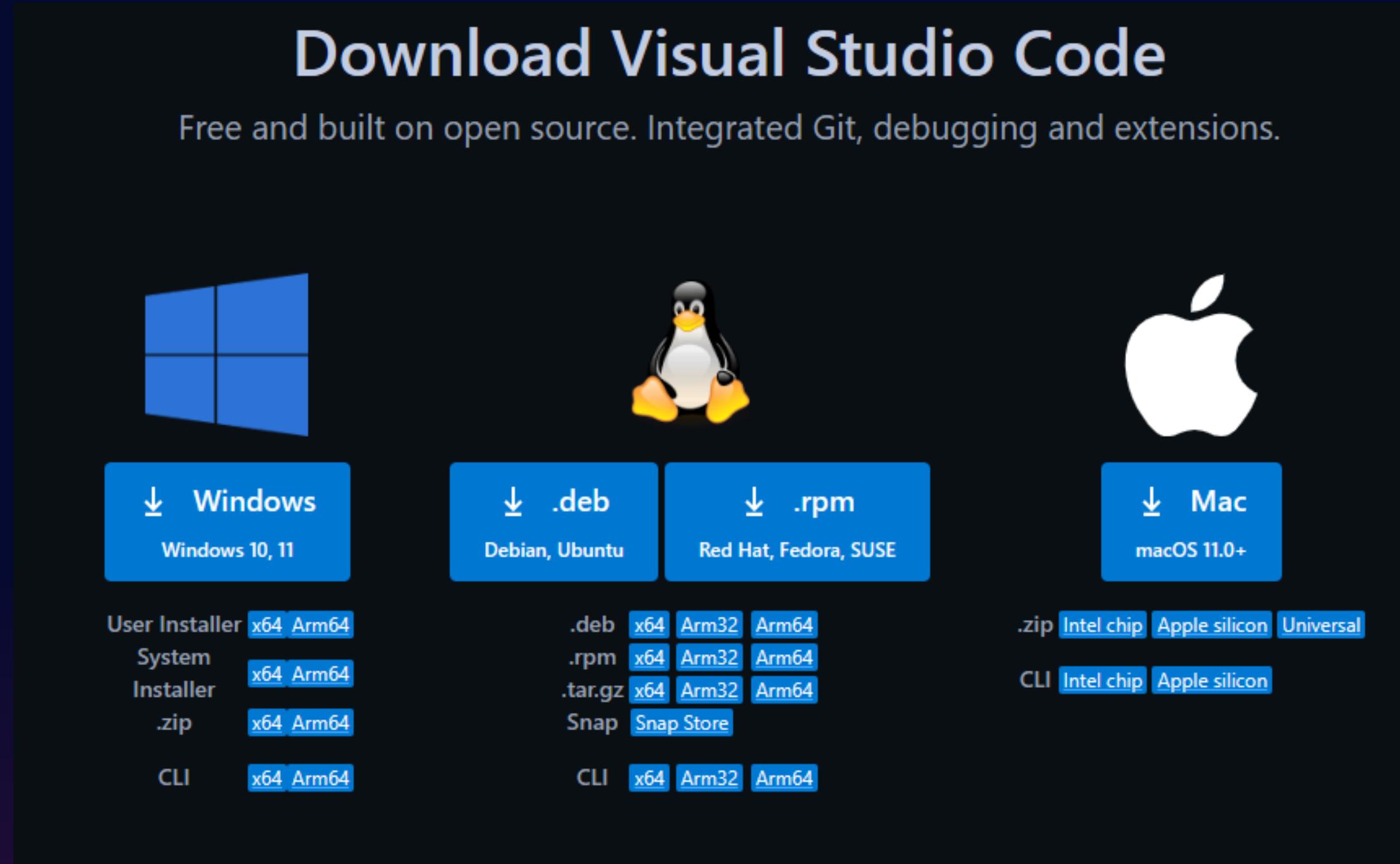
- node --version
- npm --version

# VS CODE

1. Go to <https://code.visualstudio.com/download>
2. Click "Download for [Your OS]"

## Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.

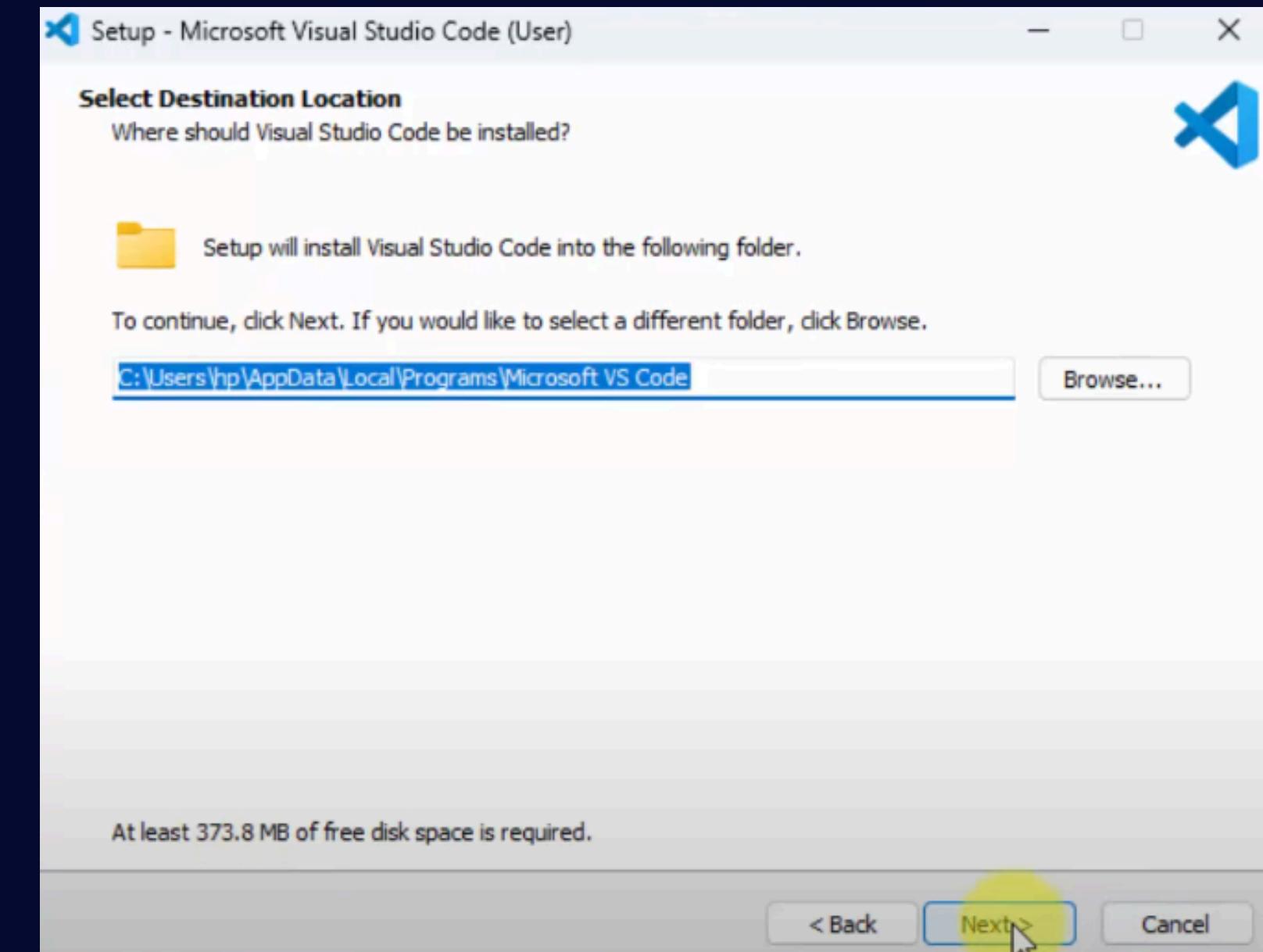
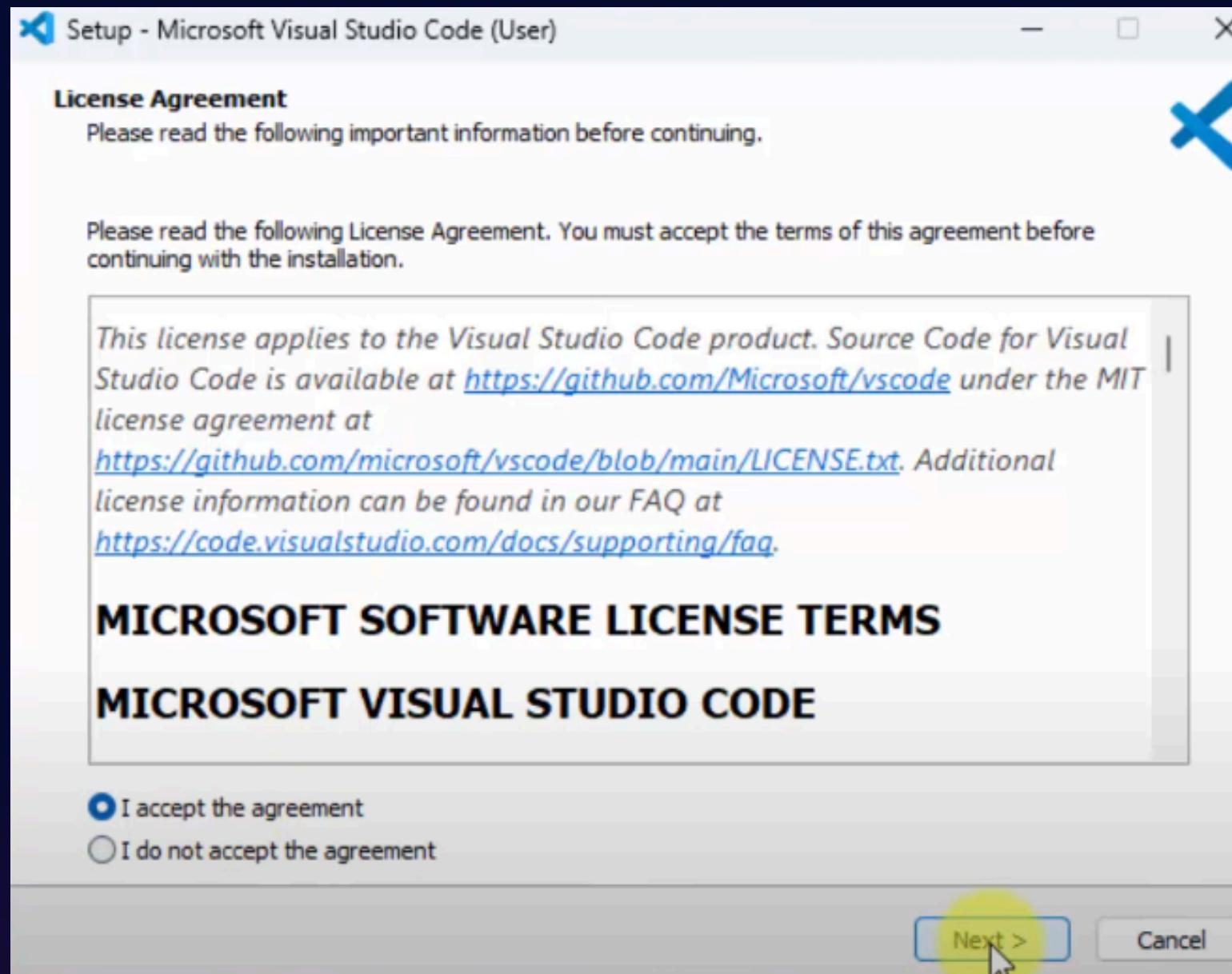


The screenshot shows the official Visual Studio Code download page. It features three main operating system logos: Windows (blue square icon), Linux (Tux the Penguin icon), and macOS (apple icon). Below each logo is a blue download button with a downward arrow icon and the operating system name: "Windows", ".deb", ".rpm", and "Mac". Each button also specifies a supported version or distribution: "Windows 10, 11", "Debian, Ubuntu", "Red Hat, Fedora, SUSE", and "macOS 11.0+". At the bottom of the page, there are additional download links for "User Installer", "System Installer", ".zip", "CLI", and "CLI" (Snap Store) in various architectures like x64, Arm64, and Intel chip.

Platform	Architecture
User Installer	x64, Arm64
System Installer	x64, Arm64
.zip	x64, Arm64
CLI	x64, Arm64
.deb	x64, Arm32, Arm64
.rpm	x64, Arm32, Arm64
.tar.gz	x64, Arm32, Arm64
Snap	Snap Store
CLI	x64, Arm32, Arm64

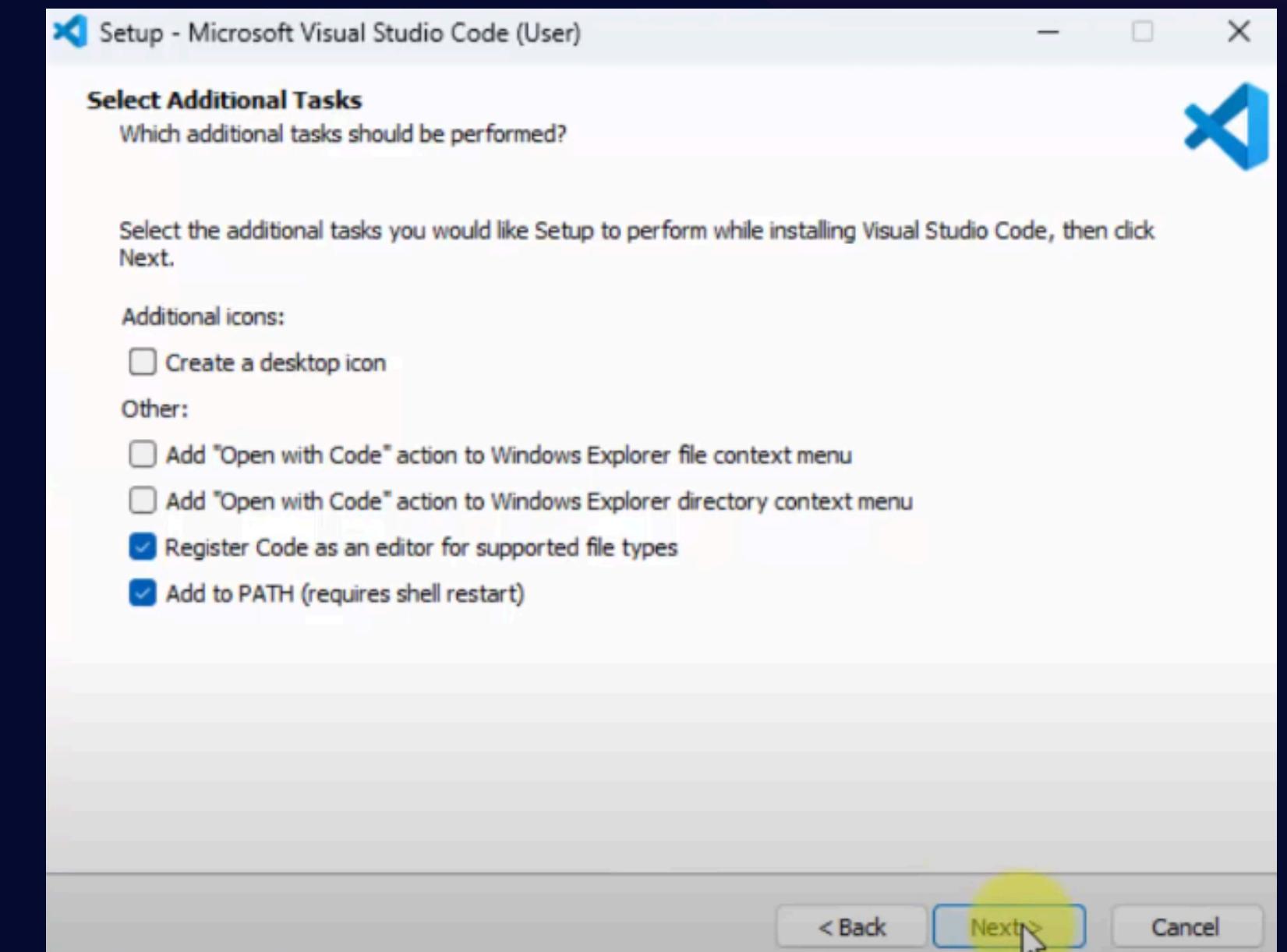
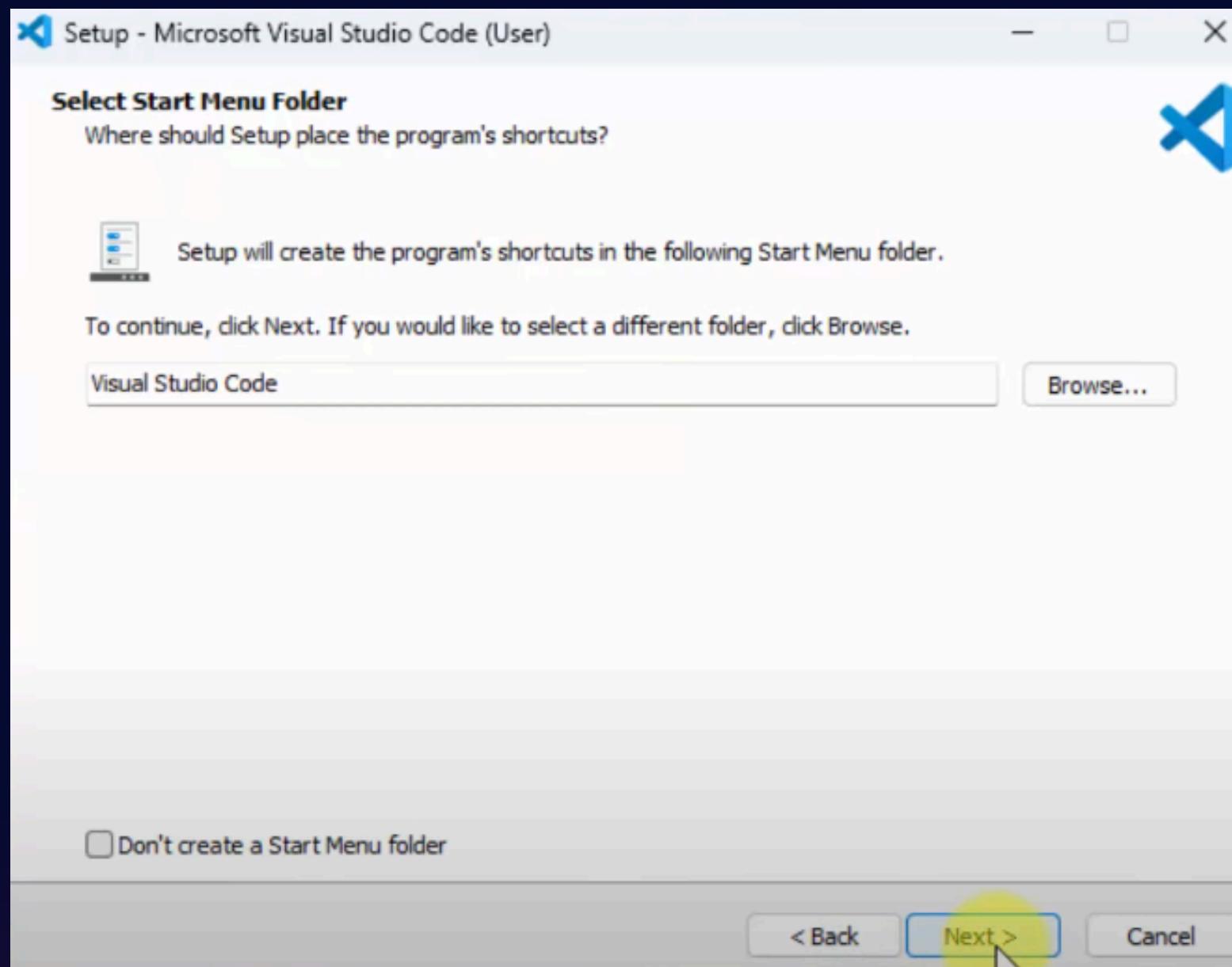
# VS CODE

## 3. Run installer



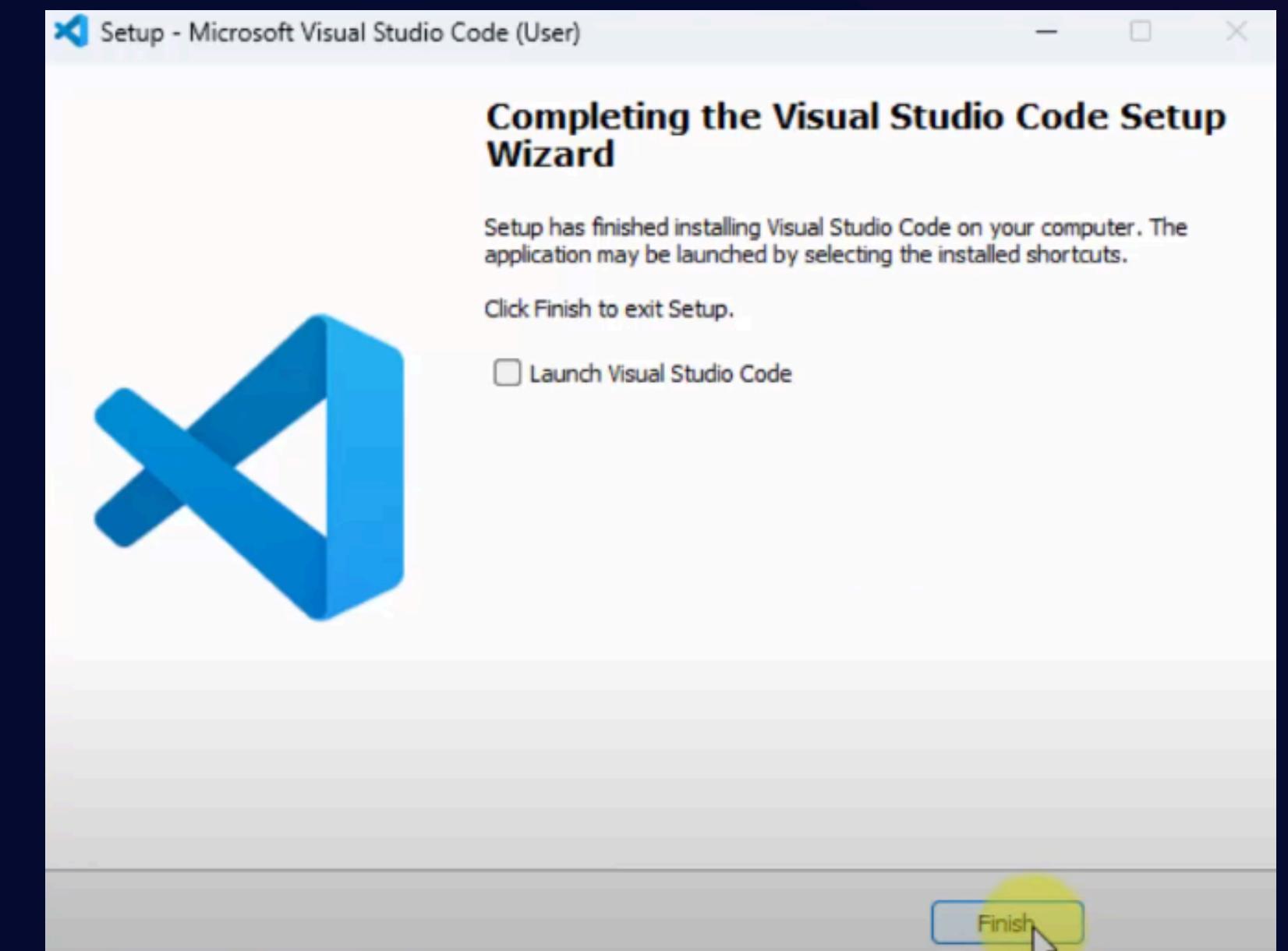
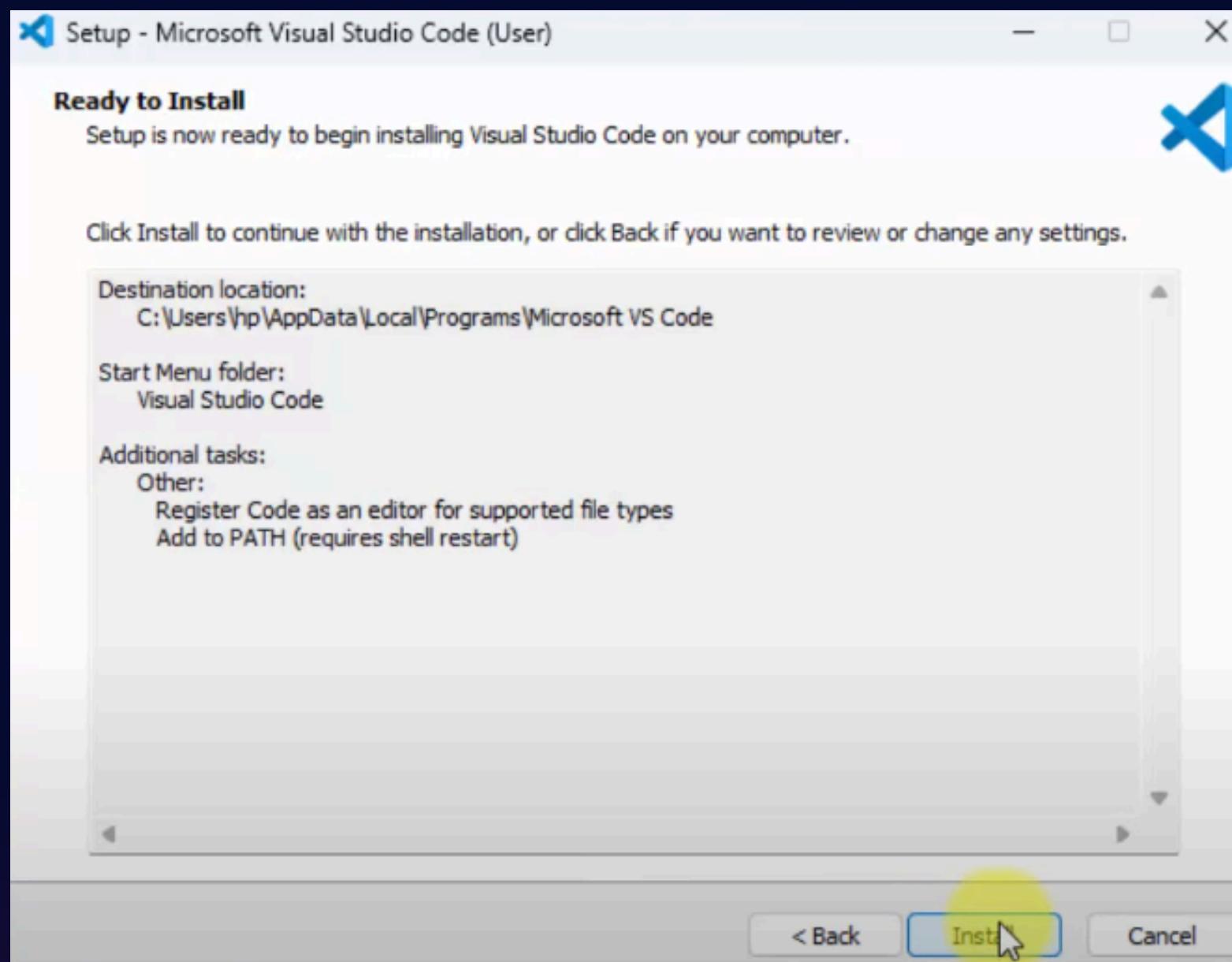
# VS CODE

## 3. Run installer



# VS CODE

## 3. Run installer



# VS CODE



## Windows/macOS

4. Verify: Open command prompt/terminal and type

- code --version

# GEMINI CLI



1. LogIn/SignUp github account
2. Go to <https://github.com/google-gemini/gemini-cli>
3. Run on terminal/command prompt `npm install -g @google/gemini-cli`
4. Run `gemini`

## Note:

- Free tier: 60 requests/min and 1,000 requests/day
- Gemini 2.5 Pro with 1M token context window