Efficient tools and techniques for modern software development

Visual Studio Code

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Agenda

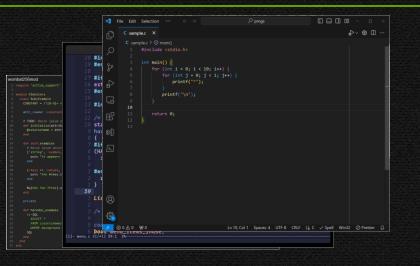
- IDE vs Text Editor Why VS Code?
- Installation Launching VS Code
- How to write and execute programs
- Basic Editing/Navigation Tricks *
- The Editor Overview
- Multiple Cursors **
- Extensions
- References

IDE vs Text Editor – Why VS Code?

- IDE(Integrated Development Environment) Eclispe/Netbeans/Intellij/Visual Studio*
 - Pros:
 - They include compilers and integrated tools to build end to end projects
 - Cons:
 - Big in size(around few GBs)
 - Cannot handle large projects
 - Usually Paid and not free/open source
- Text Editors Visual Studio Code/Vim/Emacs
 - Pros:
 - Light weight(around few MBs).
 - Can handle large code bases and very versatile and flexible to customize
 - Open source and free of cost
 - Cons:
 - Do not include compilers/debuggers.
 - Building end to end projects require working with build systems separately.
- Please do not use Notepad/Notepad++ 😂

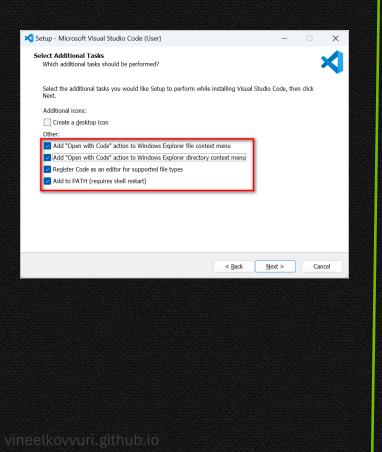
*Visual Studio is different from Visual Studio Code

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7	Versioning Output	returning. If this property is not true after this	method is called, the caller should ignore

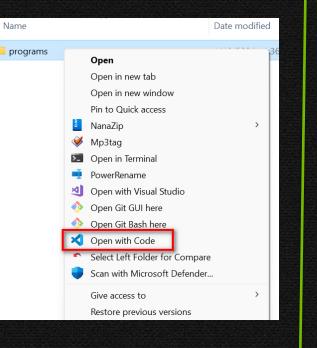


Installation – Launching VS Code

https://code.visualstudio.com/download



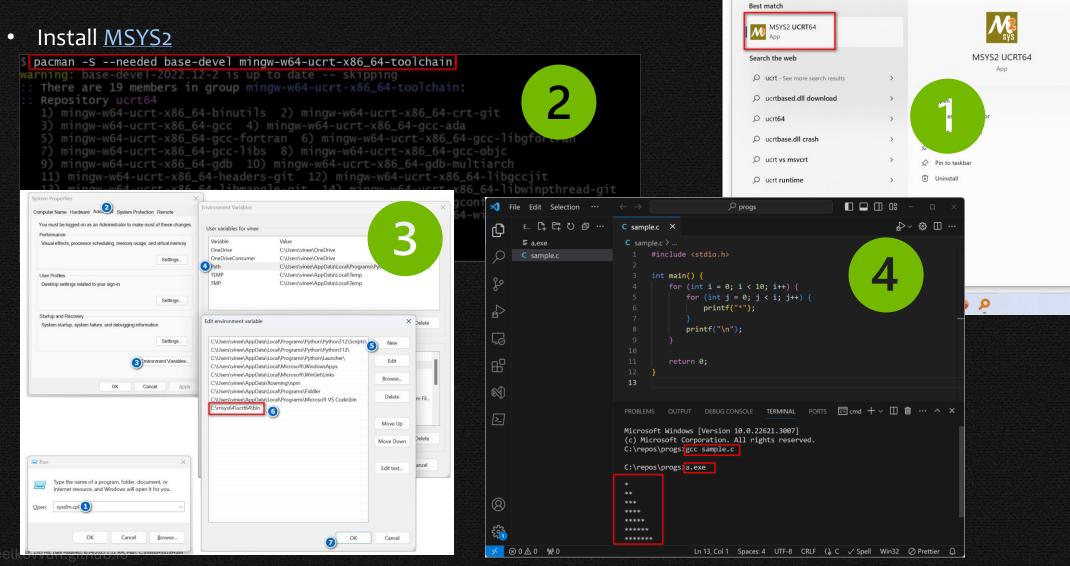
Via Explorer Context Menu



Via Command line – Code.exe

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How to write and execute programs?



will open a MSYS2 terminal window for you

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Documents Web

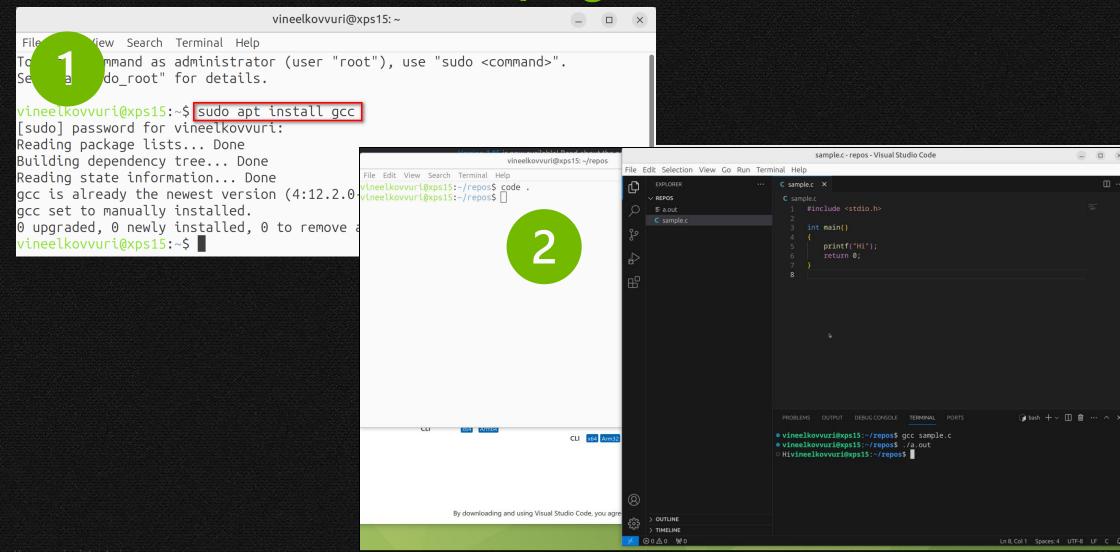
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Settings Folders 🕨

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b Chat

How to write and execute programs in Linux?



The Editor Overview

- Ctrl + Shift + P Open Command Palette
- Ctrl + P Open File from workspace(?)
- Explorer
 - Create files with multiple sub directories deep
 - Compare Files
- Editor tabs Copy Path
- 80/100 Column Guides
- Indent Guides
- Ctrl + F/H Find/Replace in current file
- Scroll bar search highlights
- Ctrl + Shift + F/H Find/Replace in workspace
- Ctrl + \ Splits
- Sticky Scroll

- Ctrl + Shift + \ Find the matching brace
- Alt + Left/Right Navigation history
- Remove blank lines

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Basic Editing/Navigation Tricks

- Left/Right Navigate each character left/right
- Ctrl Jump b/w words
- Home/End Move to beginning and end of the line
- Shift Selection character
- Delete/Backspace deletes the next/previous character

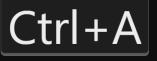
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Ctrl+A – Select all text

VS Code Specific

- Line Operations(no selection)
 - Ctrl + C Copy entire line
 - Ctrl + X Cut Line
- Alt + Down/Up Move lines

- 1 Register a preview feature in your Azure subscriptio
 2 functionality for a resource provider. Some preview
- Ffeat require approval, the state is Registered. If a preview feature requires approval, the registratio request approval from the Azure service offering the you request access through a support ticket. To requ Azure support request. After the registration is app state changes to Registered.



Basic editing walkthrough

Multiple Cursor

Ctrl + D – Create Multiple cursor at next occurrence – Search Method Ctrl + Alt + Down/Up – Create Multiple cursors on each line – Drag Method Shift +Alt + I – Create Multiple Cursors on all selected lines – Select Lines Method Ctrl+F > Search > Alt+Enter – Create multiple cursor on all occurrences - Find All Method

- 1 Register a preview feature in your Azure subscription to expose more
- 2 functionality for a resource provider. Some preview features require
- 3 approval.

4

5 For a preview feature that doesn't require approval, the state is 6 Registered. If a preview feature requires approval, the registration 7 state is Pending. You must request approval from the Azure service 8 offering the preview feature. Usually, you request access through a 9 support ticket. To request approval, submit an Azure support request. 10 After the registration is approved, the preview feature's state changes 11 to Registered.

12

Multiple Cursors Walkthrough

Extensions

- Align
- Case conversion(Transform)
- Text Pastry 1 to X
- Delete trailing spaces
- Commenting flow Alt + Q
- Prettier Code formatter Shift + Alt + F
- VSCode-PDF extension
- Rainbow CSV extension

Extensions Walkthrough

References

- https://github.com/vineelkovvuri/gvpcoe-sessions-2024/blob/master/VSCode
- https://stackoverflow.com/
- https://www.youtube.com/@code/shorts
- https://code.visualstudio.com/docs

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https://youtube.com/@vineelkovvuri

https://discord.gg/baDQSPpE

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Thank You