



**Installation, Sharing,  
and Collaboration**  
**Additional Reading**

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# Introduction

This guide will introduce you to the command line and help you install your coding environment. It also gives steps for what to do if the installation fails.

If you want to install extra third-party packages, you should know the best practices for installation, like using package managers and containerization. This guide contains information on both.

Finally, this guide contains information on using Google Colab and spaCy.

You may find it necessary to refer back to sections of this document throughout your bootcamp.

**Please note** that the instructions in this guide may address different courses. Make sure to follow the steps that are specific to your course.

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# Screen sharing in Google Meet

Google Meet is the tool we use for video calls between students and mentors.

You will often need to share your screen with a mentor during a Google Meet call. For example, you might need help with installation if something goes wrong. You could also show your coding environment to a mentor. This way, you can get help debugging or running your code.

To share your screen in Meet on a Windows computer using the Chrome browser, follow these steps:

1. Join a Meet video meeting.
2. At the bottom, select "Present now .
3. Choose "Your entire screen," "A window," or "A tab."
  - a. If you present a Chrome tab, it will share the tab's audio by default.
  - b. To present a different tab, select the tab you want and click "Share this tab instead."
4. Select "Share."



## Sharing your screen in macOS

When using a Mac, sharing your screen through Google Meet in Chrome is more complex. You will need to enable certain permissions before sharing. Follow [this guide](#) on how to screen share in macOS.

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# The command line

The command line is an indispensable tool in a developer's toolkit. It helps you perform many tasks quickly and efficiently. You can use it to manage dependencies, deploy applications, and more. The command line is a resource you will frequently rely on throughout your development career.

## What is the command line?

The command line is a text-based interface used for interacting with your computer. Unlike graphical user interfaces (**GUIs**), which use icons and menus to navigate and perform tasks, the command line relies on text commands entered by the user. This interface allows for more direct communication with the operating system, offering powerful and flexible control over your computer.

The command-line interface (**CLI**) can be intimidating at first, especially if you are used to GUIs where you point and click to get things done. However, once you understand the basics, you will find it to be an invaluable tool. Every operating system has some form of command line, such as the Terminal on macOS and Linux, or Command Prompt and PowerShell on Windows. For simplicity, we will refer to the command line as the terminal for all operating systems in this course.

## Why do you need it?

The command line is a powerhouse tool in computing, offering several key advantages for users. It allows for the automation of repetitive tasks, provides more precise control over your system, and can perform complex operations with a single line of code. The command line is indispensable for tasks like scripting, system administration, and development workflows, making it a crucial skill for many tech professionals.

Here are some key reasons to use the command line:

- **Software installation:** Installing software via the command line is often faster and more reliable than using a GUI, especially on systems where package managers handle dependencies automatically.
- **Version control:** Knowing how to navigate the command line is beneficial when working with version control systems like Git, as it enhances efficiency in managing and deploying code.
- **Automation:** Many tasks can be accomplished more efficiently through the command line than through a GUI. The command line allows you to write scripts that automate repetitive tasks, saving a significant amount of time and reducing

errors in your workflow. For example, renaming hundreds of files at once is much quicker with a script than manually clicking each file.

- **Remote access:** Tools like Secure Shell (SSH) let you remotely access and control another computer through the command line. This is essential for managing servers and performing remote system administration.
- **Advanced control:** The command line offers access to advanced system settings and operations that are often not available through the GUI. This can include network configurations, file permissions, and more.

## Finding the command line

In this section, we'll guide you through the different ways to access the terminal on various operating systems, and comment on the differences between Command Prompt and PowerShell for Windows users.

### Windows



- Click the “Start” menu and type “powershell” in the search box to locate the command line.
- Alternatively, find “PowerShell” under “Programs” (or “All Apps”) and click on it.

### macOS



- Open the “Applications” folder.
- Go to the “Utilities” folder.
- Click on “Terminal” to launch it.
- Alternatively, type “terminal” in the spotlight search bar (top-right corner 🔍) and click on the app.

### Linux



- Open the Terminal from your applications menu.
- Alternatively, press Ctrl + Alt + T to access the command line.

## Command Prompt versus PowerShell

PowerShell is preferred over Command Prompt for Windows due to its advanced features like object-oriented scripting, pipelines, and specialized cmdlets. Cmdlets are built-in commands in PowerShell designed for specific functions, making it more robust and manageable. Microsoft actively develops PowerShell, ensuring it stays future-proof. While Command Prompt is still useful for simple tasks and maintaining legacy scripts, PowerShell is the better choice for automation and administration. We recommend using PowerShell for the tasks in this lesson.

# Common commands

The following table provides a selection of commonly used PowerShell and Unix commands to help get you started with the command line.

For a comprehensive list of commands, visit these pages, [PowerShell \(Windows\) commands](#) and [Unix \(macOS/Linux\) commands](#), to explore more command line operations.

Description	Windows PowerShell (alias)	macOS/Linux
Displays the current working directory	<code>pwd</code>	<code>pwd</code>
Changes the directory	<code>cd</code>	<code>cd</code>
Move up one level in the directory	<code>cd ..</code>	<code>cd ..</code>
Displays a list of a directory's files and sub-folders	<code>dir</code>	<code>ls</code>
Print contents of a text file	<code>type</code>	<code>cat</code>
Create a new directory	<code>mkdir</code>	<code>mkdir</code>
Remove files and directories	<code>del / rmdir</code>	<code>rm</code>
Move or rename files and directories	<code>move / ren</code>	<code>mv</code>
Copy files and directories	<code>copy</code>	<code>cp</code>
Clear the screen	<code>cls</code>	<code>clear</code>
Quit the terminal	<code>exit</code>	<code>exit</code>



## Code hack

You can get detailed information, including instructions, examples, and usage guidelines, on the various commands available in both Windows PowerShell and Unix-based systems.

For **Windows PowerShell**, open the terminal and run `Get-Help`. To get help on a specific command, run `Get-Help <cmd-name>`.

For **Unix-based systems**, open the terminal and run `man` to access the manual pages. To get help on a specific command, run `man <cmd-name>`. Additionally, you can also run `whatIs <cmd-name>` to get a brief description of the specified command.

To get help on a specific command, you have to type the help command followed by the command, for example:

## Windows

In Windows, you would enter `Get-Help` followed by the command like so:

```
C:\Users\user> Get-Help cd
```

## macOS/Linux

Type `man` followed by the command in macOS/Linux:

```
~ $ man grep
```

You could also type `whatis` followed by the command in macOS/Linux to get help. Compare the output you get with the `whatis` and `man` command:

```
~ $ whatis grep
```

As you should see, the help commands give you the information about the `grep` command in the example.

---

## Absolute and relative paths

Paths are directions to a file or folder on your computer, showing where it is located. Absolute paths give the full address from the **root**, while relative paths give the address, starting from your current location. The root directory is the top-level starting point in a file system. In Linux/Unix, it's denoted by `/`, while in Windows, it's typically represented by a drive letter (e.g., `C:`). All other directories and files are organised hierarchically **beneath** it.

As you become more proficient with basic terminal commands, navigating paths will become easier. Let's inspect the difference in paths more closely:

**Absolute Path:** This is the complete path from the root directory to the target file or folder. It doesn't depend on the current working directory. For example, `/home/user/docs/file.txt` on Linux or `C:\Users\Name\docs\file.txt` on Windows.

**Relative Path:** This is the path relative to the current working directory. It starts from the current location and navigates to the target file or folder. For example, `docs/file.txt` if you're currently in `/home/user/`.

# Navigating directories

As will be noted by the information provided by the help command output, the `cd` command is used for navigation. It takes you from one directory to the next. For example, if you want to perform some command on a folder that is on your desktop, you would have to type `cd` to change the directory to your desktop as shown below:

## Windows

```
C:\Users\user\cd Desktop  
C:\Users\user\Desktop>
```

## Linux

```
~ $ cd Desktop  
Desktop $
```

## macOS

```
user@machine ~ % cd Desktop  
user@machine Desktop %
```

From here, we can now perform operations on the files or folders on our desktop, since we have navigated into it. But what if we have forgotten the name of the file or folder that we wanted to operate on? Well, you can simply use the `dir` (Windows) or `ls` (Linux/macOS) command to get a list of all the files or folders saved on the desktop.

But let's not alter any file or folder on the desktop; instead, let's create a new folder. Do you recall the command to make a new folder? That's right, it's `mkdir` for all operating systems.

## Windows

```
C:\Users\user\cd Desktop  
C:\Users\user\Desktop>mkdir hyperion
```

## Linux

```
~ $ cd Desktop  
Desktop $ mkdir hyperion
```



## macOS

```
user@machine ~ % cd Desktop
user@machine Desktop % mkdir hyperion
```

Notice that we have made a new folder on the desktop called “hyperion”? It’s that simple! So, now that we have done what we wanted to do on our desktop, how do we get back to where we were, i.e., how do we navigate **backwards**?

To navigate two directories back, we would have to type `cd ../../`. Let’s have a look at an example:

## Windows

```
C:\Users\user\cd Desktop
C:\Users\user\Desktop> cd ../
C:\Users\user\
```

## Linux

```
user@machine:~$ cd Desktop
user@machine:~/Desktop$ cd ../
user@machine:~$
```

## macOS

```
user@machine ~ % cd Desktop
user@machine Desktop % cd ..
user@machine ~ %
```



### Take note

Navigating directories in the command line can become tedious if you frequently need to access deeply nested folders or switch between various directories. There are a variety of methods to make directory navigation more efficient. A common strategy is to create aliases. Explore how to create aliases in [Windows](#) or [Unix](#). Other strategies include `cd` shortcuts; `pushd`, `popd`, and `find` commands; directory bookmarks; and tab completion.

---

# Install software with the command line

Installing software via the command line is an efficient and reliable method, particularly on systems that use package managers. Package managers, such as APT on Debian-based Linux distributions, Homebrew on macOS, or Chocolatey on Windows, automatically handle dependencies and ensure that the software and its requirements are correctly installed.

This process is often faster than using a GUI, and provides more control and flexibility for advanced users. Command-line installations are also scriptable, enabling automation and batch processing for deploying multiple applications quickly and consistently across different systems.

When performing certain tasks on your computer, especially those that affect the system configuration or install software, elevated privileges are required. These tasks need more authority than what a regular user account has. In Windows, it involves running commands or applications as an administrator, while in Linux, this is managed through the `sudo` command.

## Windows

How to run commands as an administrator:

- **Right-click method:** To run a program or command prompt as an administrator, right-click the application or command prompt icon and select “Run as administrator.”
- **Using start-process:** In PowerShell, you can use the `Start-Process` cmdlet with the `-Verb runAs` parameter to run a command as an administrator within scripts.

```
Start-Process powershell -Verb runAs
```

## Linux

How to run commands as a superuser:

- **Sudo command:** Prefix the commands that require superuser privileges to execute them. For instance, you would install visual studio code like this if you were using APT as a package manager:

```
sudo apt install htop
```

## macOS

While you can also use the `sudo` command on macOS if you are using Homebrew, this is unnecessary and not recommended. Applications are installed in the user space and thus administrative privileges are not required. For example, you would install visual studio code like this:

```
brew install --cask visual-studio-code
```

## Set up your development environment

Now onto the exciting part! Once you have set up your development environment, you are ready to start programming.

You will use Visual Studio Code (**VS Code**) as your integrated development environment (**IDE**) to open all text files (**.txt**) and Python files (**.py** – used in data science and software engineering) or JavaScript files (**.js** – used if you are a web development student).

There are a range of other editors that you can use such as vi, emacs, Notepad++, and PyCharm, but we cannot guarantee that your peers will be familiar enough with them to assist you with them or that our mentors will be able to consistently review your work, therefore, we recommend you stick to VS Code.



### Take note

Please follow the steps below carefully. These instructions are for Windows, macOS, and Linux versions that are still supported by their developers.

If your operating system is not supported because it is too old, or if you are using an unsupported operating system like ChromeOS, you will need to use [Replit](#) as your IDE, in which case, you can skip the following setup instructions.

If you are a data science student, you will also need to use [Google Colab](#) when you work with Jupyter notebooks later in your bootcamp.

if you encounter any errors with the instructions below, consider using [Replit](#) as an alternative.

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# Installing VS Code

1. Navigate to [Visual Studio Code](#).
2. Download the version of VS Code that matches your operating system (OS). Alternatively, you can follow the instructions for your specific OS by navigating to one of the following links.
  - a. [Running Visual Studio Code on Windows](#)
  - b. [Running Visual Studio Code on macOS](#)
  - c. [Running Visual Studio Code on Linux](#)

# Installing Python

Unix-like operating systems such as macOS and Linux often come with a pre-installed version of Python. It is generally discouraged to use the distributions of Python that are shipped with macOS, as they may either be outdated or have customisations that might give you issues further down the line. Please follow the guidelines at [Get Started Tutorial for Python in Visual Studio Code](#) and note the following:

- If you are on **Windows** or **macOS**, ensure that you have installed the latest stable version of Python using as described in the tutorial.
- If you are on **Linux** and the prepackaged Python version is not the latest stable version, ensure that you get a package provider for your operating system that uses the latest stable version. Being behind by 1 or 2 minor versions is fine on operating systems such as Fedora. However, on operating systems such as Ubuntu, we strongly recommend that you use a Personal Package Archive (PPA), such as [“deadsnakes” team PPA](#).

**NOTE:** Please avoid the flatpak or snap versions as they give you troubleshooting problems. Only proceed with flatpaks if you are sure of how they work.

Per the guidelines linked above, ensure that you install the latest stable version of Microsoft's Python extension available from [Python - Visual Studio Marketplace](#), so that you get tooltips and other useful tooling that help you as you program.

If you run into any trouble, submit a query via your dashboard for assistance.

# VS Code for different users

## Python users

You can visit the [Python overview](#) page to learn how to use VS Code with Python. If you've never programmed before, we strongly recommend that you watch the [introductory videos](#). If you have a particular problem, [Stack Overflow](#) has a number of posts about VS Code.

## JavaScript users

You can visit the [JavaScript overview](#) page to learn how to use VS Code with JavaScript. If you've never programmed before, we strongly recommend that you watch the [introductory videos](#). If you have a particular problem, [Stack Overflow](#) has a number of posts about VS Code.



### Take note

Opt-out telemetry in VS Code refers to the practice of automatically collecting usage data from users of the software, and sharing it with the VS Code developers to help them identify bugs, improve performance and make other changes that will benefit users.

If you have concerns about your privacy, data, and usage habits, please turn it off by following the [instructions provided on the VS Code webpage](#).

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# Using Live Share for collaborative coding

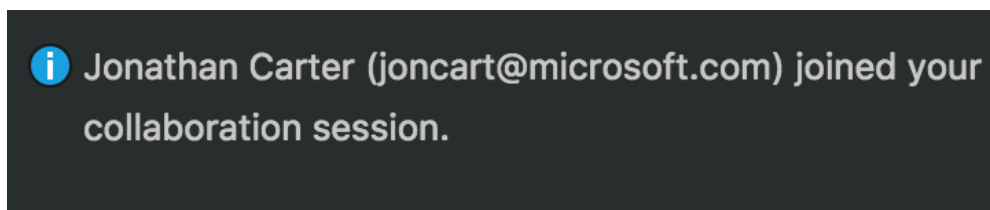
## What is Live Share?

On our coding bootcamps, you are encouraged to use VS Code as your integrated development environment (IDE). Installing the VS Code Live Share extension is an extremely useful thing, as it enables you to work collaboratively on code with mentors, peers, or lecturers. It is quick and easy to install, and will accept either a GitHub account or a Microsoft account as login credentials. Once installed, the user can create a link to share their live coding instance with one or more other people, enabling them to both

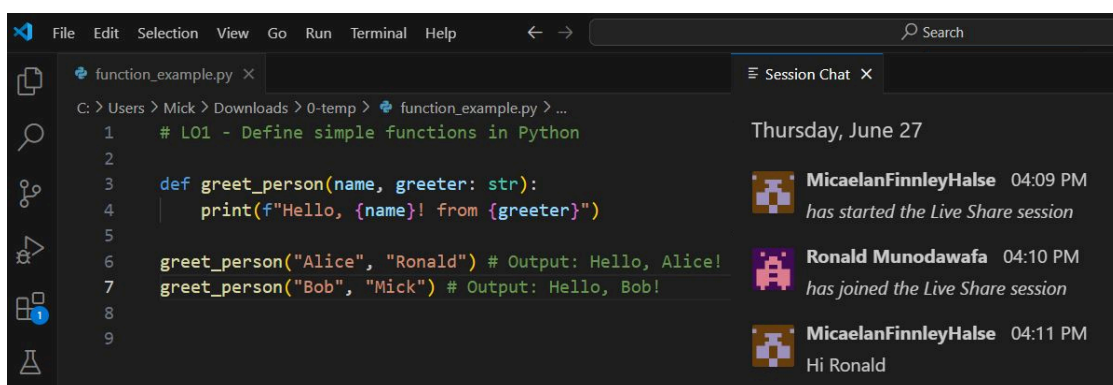
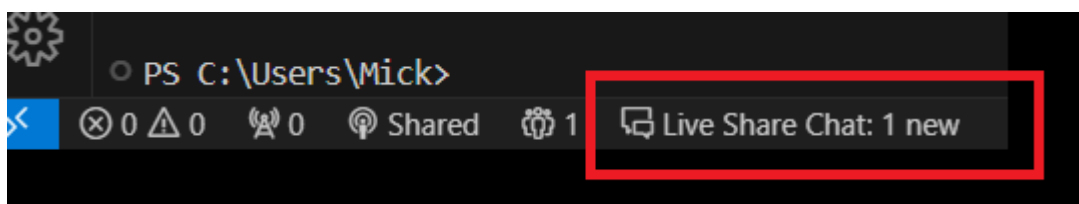
work on the same VS Code instance, edit the same code, etc. On GitHub, students can open a VS Code environment from inside any repository by simply pressing the full-stop/period key. Then Live Share can be easily installed from the extensions option on the leftmost vertical menu.

## Installing and using Live Share on your device

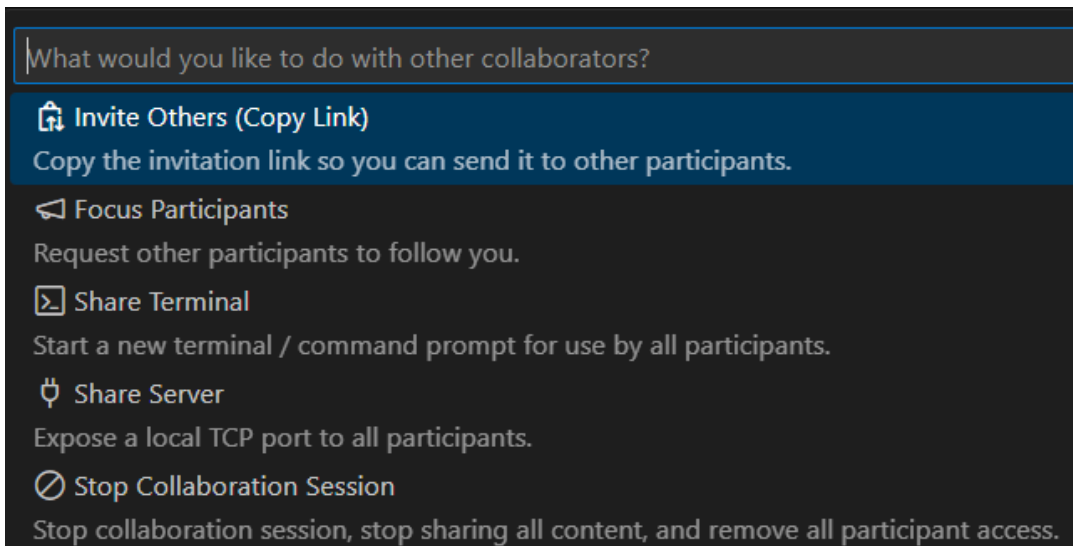
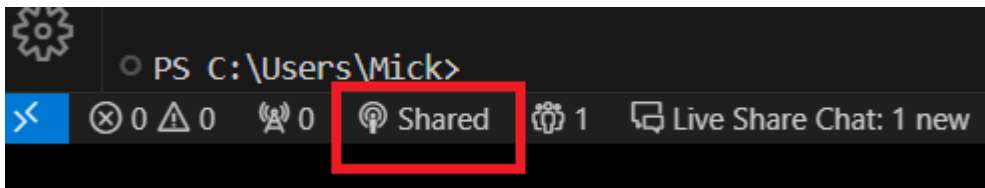
1. Navigate to the [Live Share page](#), which includes installation instructions and a download link.
2. Download and install the extension as per the instructions. Once complete, you'll see Live Share appear in your status bar.
3. You can now begin collaborating with others immediately. Once an invited collaborator joins, you'll get a notification, something like the one below.



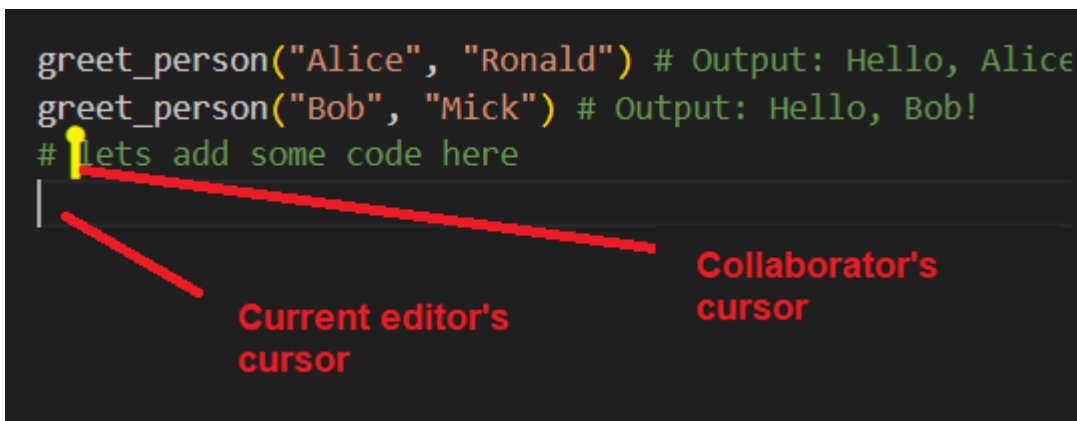
4. You will see the new collaborator's cursor appear in your currently opened file. All collaborators will start out 'following' you, which means that as you scroll or navigate between files, they will track those actions as well. This makes it easy to orient them with the issue/question/task you're about to start collaborating on.
5. Notice that a menu option for Live Share has appeared on the bottom left of your VS Code environment? You can chat with collaborators by selecting the Live Share Chat:



6. You can also access a menu of further collaboration options by clicking on the “Shared” option.

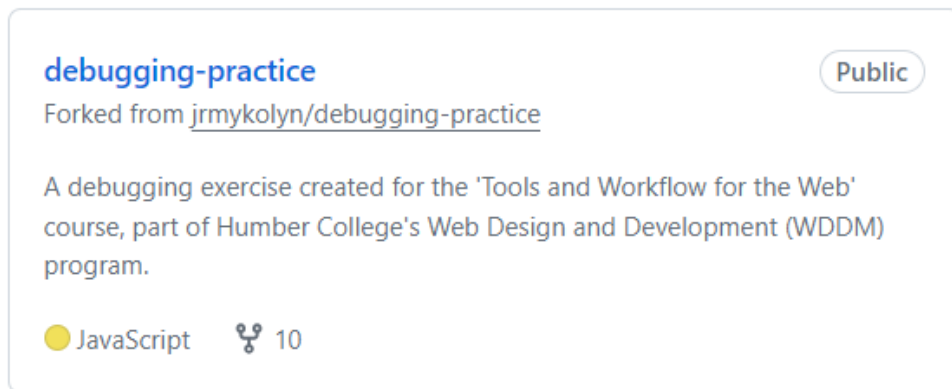


7. Any number of collaborators can edit the code.

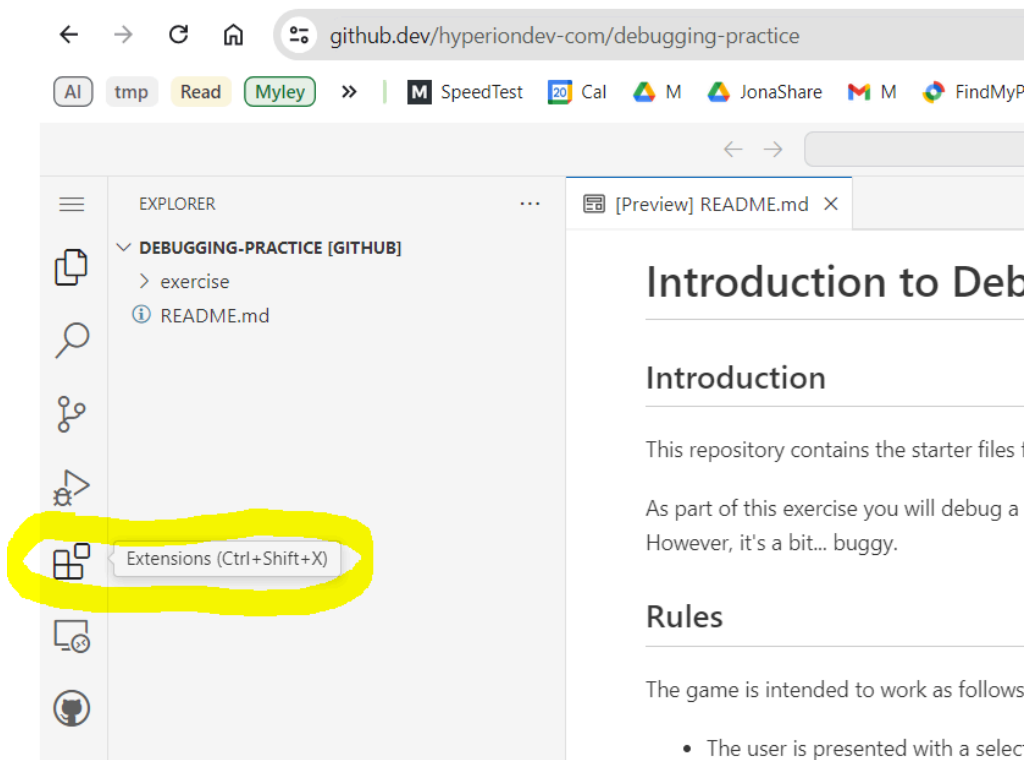


## Installing and using Live Share on GitHub

1. Login to GitHub with your own credentials. If you still need to get a GitHub account, create one first.
2. Once logged in, navigate to [hyperiondev-com · GitHub](#).
3. Enter a public repository, such as debugging practice, by clicking on the hyperlinked title (in light blue in the picture below).

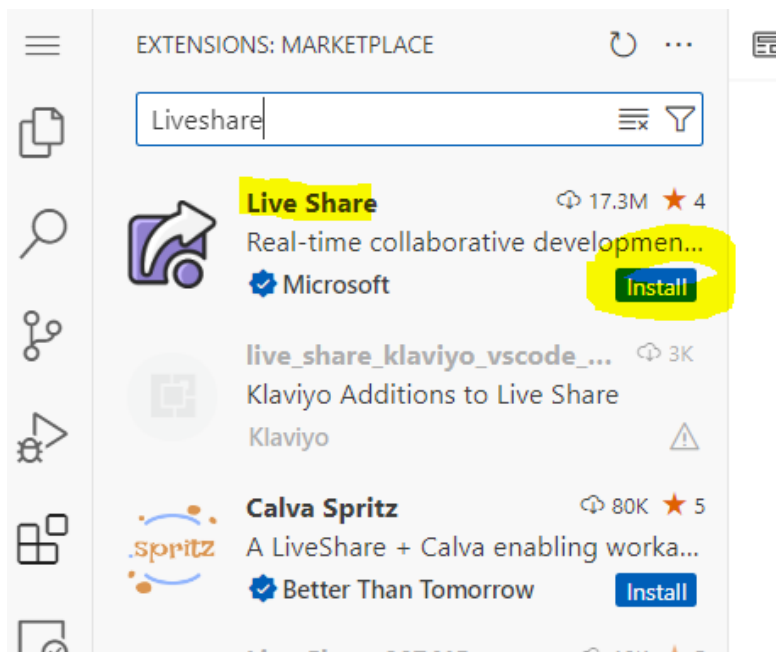


4. Press the full-stop/period key on your keyboard to launch VS Code in-browser from GitHub. Select the “Extensions” options from the leftmost vertical menu bar.

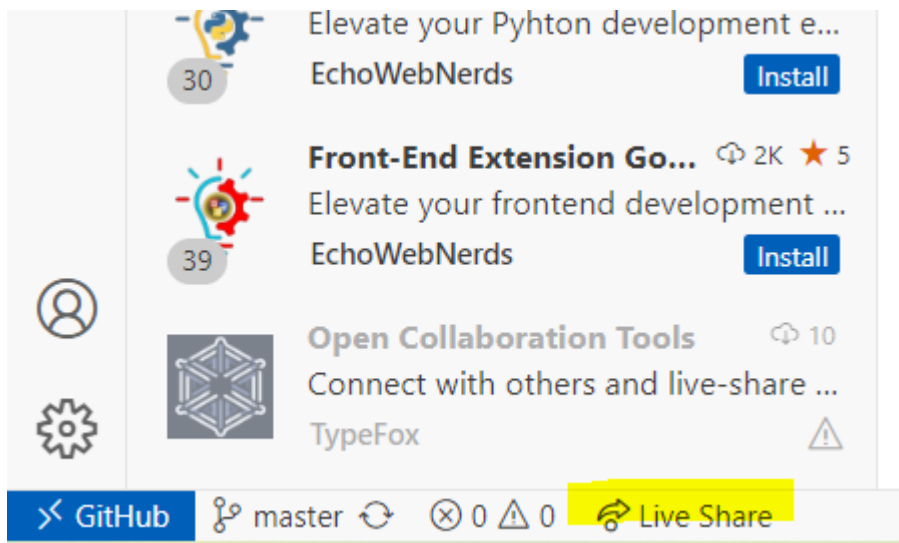




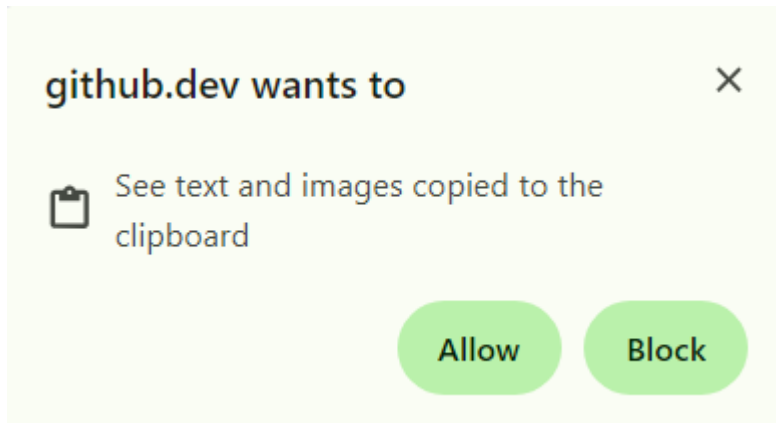
- Under “Extensions”, search for Live Share, and when it pops up, click on the “Install” option.



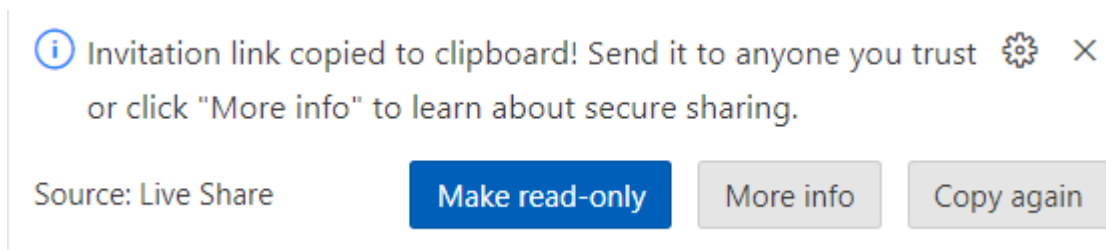
- You will notice that Live Share becomes a menu option at the very bottom of the left-hand menu panel.



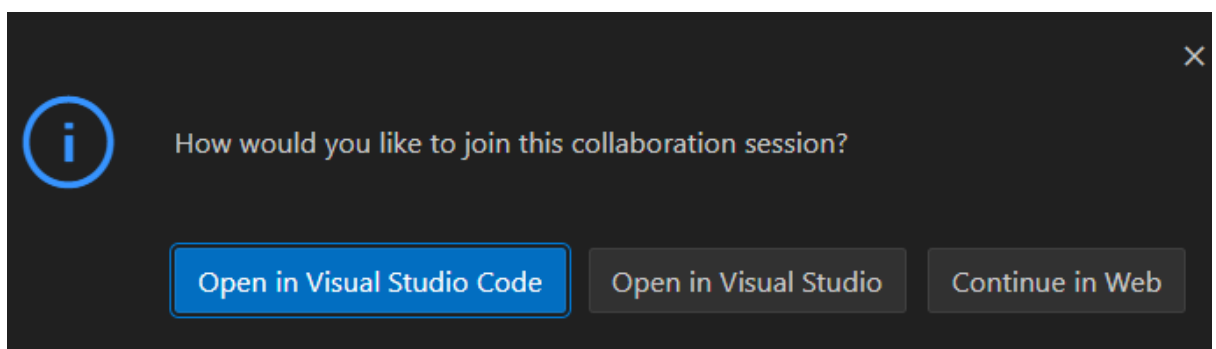
7. Allow the extension the permissions it requests.



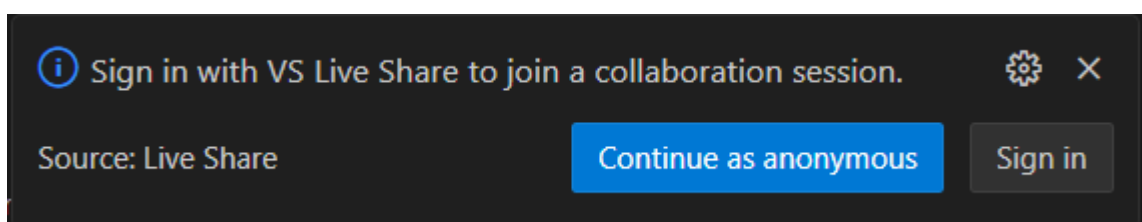
8. You'll see the following message pop up on the bottom right-hand side of your screen. Your sharelink has been automatically copied to your clipboard and you can paste it to anyone you want to allow collaborative access to your code.



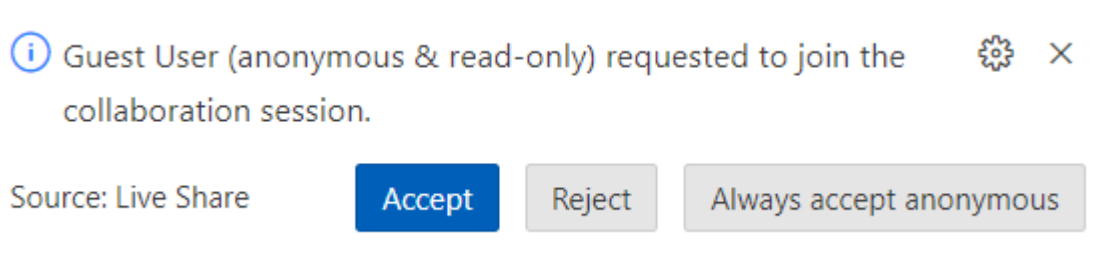
9. The recipient will see the below message, giving them the option to access your coding environment from their browser (useful from, for example, a tablet), or to open their own installation of VS Code on their main device such as a laptop.



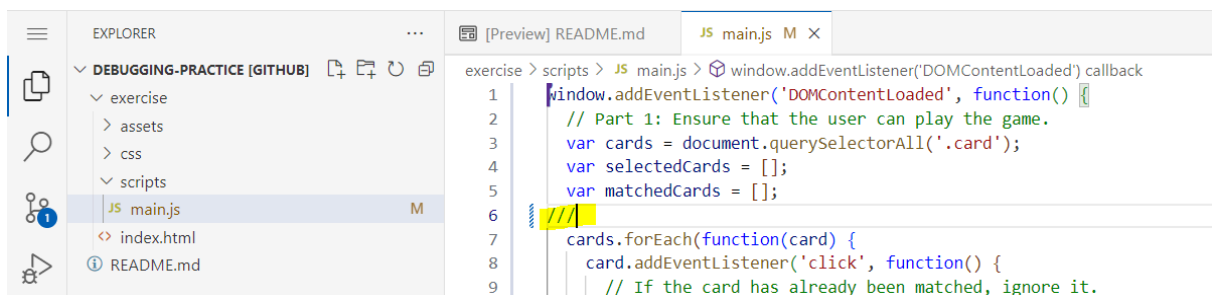
10. They can choose to sign in or continue as an anonymous user.



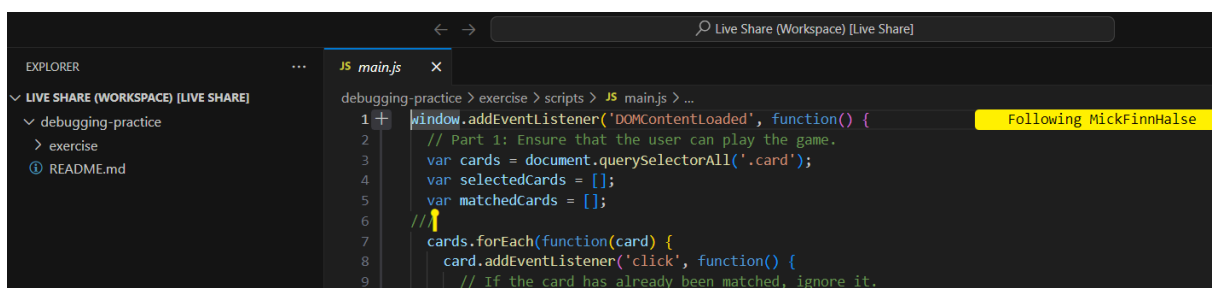
11. You may need to approve them joining if they select anonymous; it is generally a better idea for them to join as a signed-in GitHub user.



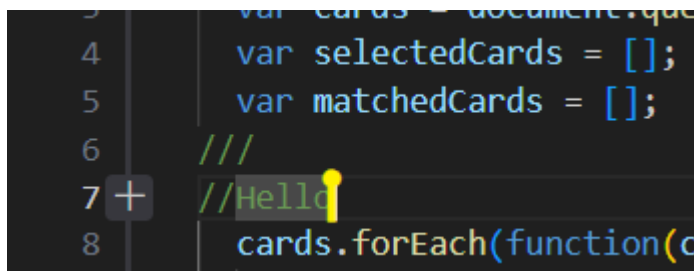
12. As the sharer, your view will now be something like this – the highlighted line is a text that has just been added:



13. The person you've shared with will see something like the picture below. In this picture, the original sharer (you, when you are following these instructions) is "MickFinnHalse" and their cursor can be seen after the text that has just been added.



14. The person you've shared with can also annotate the code. Here, they have added a comment saying "Hello".



15. This will appear on your GitHub VS Code instance like this:

```
4 |   var selectedCards = []
5 |   var matchedCards = [];
6 |   ///
7 |   //Hello
8 |   cards.forEach(function
```

## Package Managers

Package managers provide a means to install packages, organise them in your file system, and manage dependencies between packages. A dependency is when a package depends on another particular version of another package to function. If you have two different packages that rely on different versions of another package, this creates problems if you don't have a package manager. It can also be very time-consuming to find and install all the dependencies for a package. Package managers also check for known vulnerabilities that may pose a security risk. You can use a package manager to share packages you have created with others.

There are two types of package managers: those for **operating systems** and those for **programming languages**. Package managers are linked to software repositories, where the packages or software are stored.

## Operating system package managers

Some common operating system package managers include:

- **Chocolatey** for Windows ([Chocolatey repository](#))
- **Homebrew** for macOS ([Homebrew repository](#))
- Linux – each distribution has its own package manager:
  - **DNF** for Fedora
  - **APT** for Ubuntu

# Programming language package managers

As mentioned, programming languages typically have language-specific package managers.

The package manager you use depends on your preferences and the project's specific needs. Some key considerations to keep in mind are:

- **Project requirements:** ensure that the package manager you choose supports the necessary libraries and dependencies.
- **Community support:** look for an active and supportive community to provide resources and troubleshooting assistance.
- **Performance and reliability:** assess performance factors like speed and consistency versus comprehensive package registry management – especially for large, complex projects.
- **Compatibility:** consider compatibility to ensure that it integrates seamlessly with your tools and workflows.
- **Security:** research the security measures and best practices followed by the package manager to safeguard your project from potential vulnerabilities.
- **Package versions:** check whether the package manager is frequently updated to ensure your project benefits from bug fixes and new features.
- **Documentation:** always review the documentation and ease of use for a smooth development process.

Examples of some programming languages and commonly used package managers are summarised in the table below:

Language	Package manager	Software repository
Python	<code>pip</code>	<a href="#">PyPI</a> (Python Package Index)
Python	<code>conda</code>	<a href="#">Anaconda Packages</a>
JavaScript	<code>npm</code>	<a href="#">Node Package Manager</a>
JavaScript	<code>yarn</code>	<a href="#">Yarn Registry</a>
Java	Maven	<a href="#">Maven Central</a>
Java	Gradle	<a href="#">Maven Central</a>

## Python

`pip` is the general-purpose package manager for Python. It is used to install, upgrade, and manage Python packages from the PyPI repository.

## JavaScript

**npm** is the de facto package manager for JavaScript and Node.js projects, providing a vast array of packages, libraries, and tools for front-end and back-end development. However, for projects that emphasise faster and more reliable package installation, **yarn** is a good alternative. Built on top of **npm**, **yarn** is known for its enhanced performance, parallel installations, and caching capabilities.

## Java

**maven** is the primary package manager for Java projects. Among its vast collection of libraries and plugins, it excels in managing project dependencies, build automation, and project documentation. For projects that prioritise a build tool with flexibility and performance, **Gradle** is a good alternative. It offers powerful build customisation options and enjoys widespread usage in app development.

# Containerisation

As you start working on software applications and larger projects that need to be deployed, you will also need to consider how to bundle your code with all the third-party packages it relies on.

## Python

For Python projects, the **venv** module is a well-known containerisation method. The **venv module** allows you to create isolated virtual environments for Python projects, each with its own Python interpreter and package dependencies.

## JavaScript

The primary containerisation method for JavaScript applications is the Node.js **npm** module, which seamlessly integrates with Docker containers. Additionally, the **Node Version Manager** is another popular way to install, upgrade, and manage different Node.js and npm releases on Unix, macOS, and Windows WSL platforms.

**Docker** is a widely adopted and versatile method of containerisation that supports multiple programming languages, making it a popular choice among developers across various technology stacks. It enables you to create lightweight and portable containers that encapsulate your application, simplifying the deployment and management process across different environments.

# Google Colab

Google Colab is a cloud-based platform that allows you to write and execute Python code in a collaborative environment. It provides access to high-performance computing resources, including GPUs, and is ideal for data science projects, including those involving spaCy for natural language processing (NLP).

## Accessing Google Colab

Open your web browser and navigate to [Google Colab](https://colab.research.google.com). Sign in to your Google account. If you don't have one, you can create a new account for free.

## Creating a new notebook

Once you're signed in, click on the “New notebook” button in the “Open notebook” pop-up window to create a new Python notebook. Alternatively, navigate to “File” and click on “New notebook”.

You'll be presented with a new notebook interface, where you can write and execute Python code.

## Installing spaCy

To install spaCy in your Google Colab notebook, simply add an exclamation mark to the command you would usually use in your terminal as shown below:

```
!pip install spacy
```

Similarly, if you need to download spaCy models, also add an exclamation mark. For example, you can install the `en_core_web_sm` language model using the following command:

```
!python -m spacy download en_core_web_sm
```

## Working with datasets

You can upload datasets directly to your Google Colab environment using the following code:

```
from google.colab import files
uploaded = files.upload()
```

This will allow you to select and upload dataset files from your local machine. Explore other methods to load and save data from external sources using the [colab documentation](#).

**Note:** The `google.colab` module is specific to Google Colab notebooks and won't work when the notebook is run locally. To ensure that the reviewer is aware that the code should be reviewed on Google Colab, please include the following README file within your submission.

Include a separate file named "README" in your submission, where you mention the requirement to use Google Colab prominently. You can use any text editor to create your README text file. Your README file could include the following text:

```
**Note to Reviewer:**
```

```
This code is designed to be run on Google Colab. Please review the code and
execute it on Google Colab for accurate assessment.
```

Once the dataset is uploaded, you can read it into your notebook using pandas or another appropriate library:

```
import pandas as pd
df = pd.read_csv('your_dataset.csv')
```

## Using spaCy

To use spaCy to perform various NLP tasks on your dataset, import spaCy and load the desired model as follows:

```
import spacy
nlp = spacy.load('en_core_web_sm')
```

Now, you can apply spaCy's functionalities to your dataset, such as tokenisation, named entity recognition, and sentiment analysis.



## Saving your work

Google Colab automatically saves your notebook as you work on it. However, you can also manually save your work by clicking on “File” > “Save” or by using the keyboard shortcut Ctrl+S.

## Sharing your Notebook

Download your Google Colab notebook as an `.ipynb` file to upload to your task folder for review. You can also share your notebook with others by clicking on “Share” in the top-right corner of the interface. You can share it with specific people or make it accessible to anyone with the link.