

Walkthrough of Installing Everything Needed for GitHub Copilot

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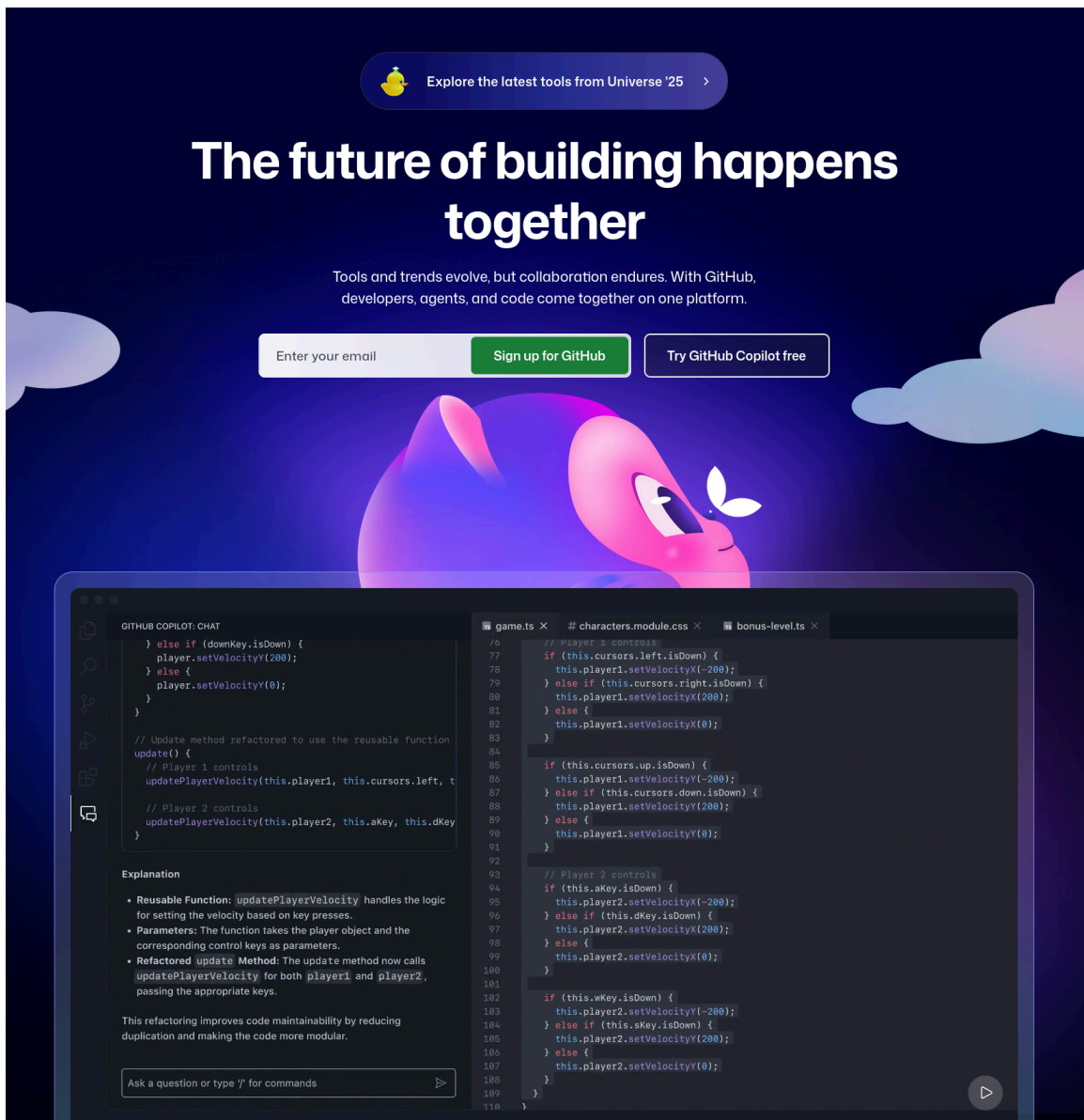
1 Checklist of Everything Needed to Install for AI-Assisted-Coding-In-R

- ☐ Install GitHub
- ☐ Install Visual Studio (VS) Code
- ☐ Install R
- ☐ Sign up for GitHub Copilot
- ☐ Copy GitHub repository/Download Zip file
- ☐ Adjust VSCode to work with R

When these are completed, you are ready for your AI-Assisted-Coding-In-R workshop.

2 Installing GitHub

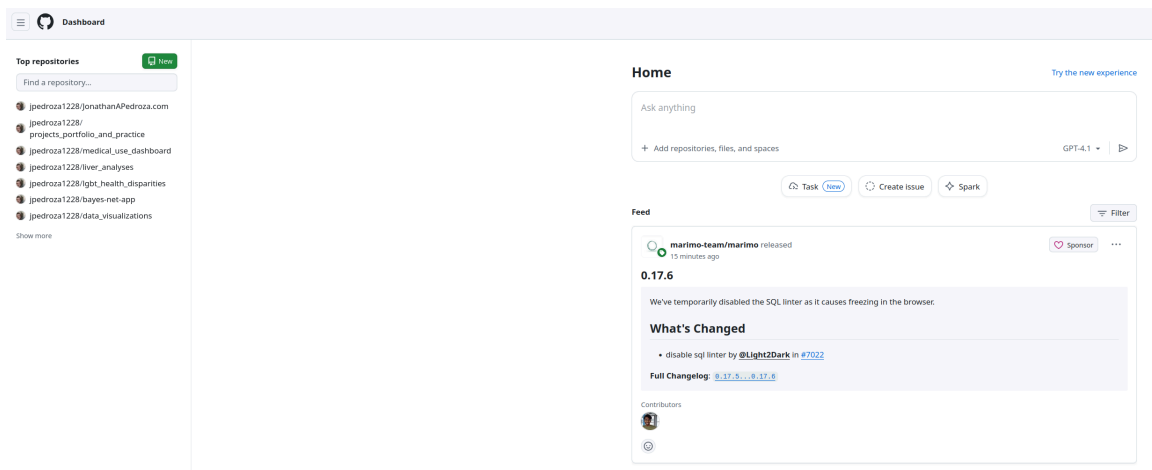
Go to [GitHub](#) and sign up for a GitHub account.



At this page, you will sign up for GitHub with your @berkeley.edu email account. Follow the directions to verify your account. Below are some recommendations for creating a username (inspired by <https://happygitwithr.com/github-acct>).

- Use part of your real name so it is easier for people to know who you are
- Try and keep it short, you may have to type it a lot
- Keep everything lowercase. If you really want to separate words, use a hyphen (-) or an underscore (_)


Once you sign in, you will be at your dashboard. You will come back to GitHub shortly to copy the information for the workshop materials.












2.1 Adding Additional Email Addresses

2.1.a Optional Two-Factor Authentication (2FA)


For more information on 2FA, you can find resources [here \(About 2FA\)](#) or [here \(Securing account with 2FA\)](#).


Q Type  to search


 |  





jpedroza1228
Jonathan A. Ped...





 Set status


 Profile


 Repositories


 Stars


 Gists


 Organizations


 Enterprises


 Sponsors


 Settings

 Copilot settings


 Feature preview



























 Appearance

 Accessibility

 Try Enterprise

Free

 Sign out

	Public profile	
	Account	
	Appearance	
	Accessibility	
	Notifications	
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	Access	
	Billing and licensing	▼
	Emails	
	Password and authentication	
	Sessions	
	SSH and GPG keys	
	Organizations	
	Enterprises	
	Moderation	▼
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	Code, planning, and automation	
	Repositories	
	Codespaces	
	Models	Preview
	Packages	
	Copilot	▼
	Pages	
	Saved replies	
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	Security	
	Code security	
<hr/>		
	Integrations	
	Applications	
	Scheduled reminders	
<hr/>		
	Archives	
	Security log	
	Sponsorship log	
<hr/>		
	Developer settings	

Two-factor authentication

...

Two-factor authentication adds an additional layer of security to your account by requiring more than just a password to sign in. [Learn more about two-factor authentication.](#)

Preferred 2FA method

Set your preferred method to use for two-factor authentication when signing into GitHub.

Authenticator app ▾

Two-factor methods



Authenticator app Configured

Edit

Use an authentication app or browser extension to get two-factor authentication codes when prompted.



SMS/Text message Less secure

Add

Get one-time codes sent to your phone via SMS to complete authentication requests. We strongly advise against using SMS because it is susceptible to interception, does not provide resistance against phishing attacks, and deliverability can be unreliable. It is recommended to use an Authenticator app instead of SMS.



Security keys

Edit

Security keys are webauthn credentials that can only be used as a second factor of authentication.



GitHub Mobile

Add

GitHub Mobile can be used for two-factor authentication by installing the GitHub Mobile app and signing in to your account.

Recovery options



Your two-factor authentication recovery codes have not been downloaded or printed in the last one year. Make sure your recovery codes are up-to-date by viewing and downloading or printing them again.



Recovery codes Viewed

View

Recovery codes can be used to access your account in the event you lose access to your device and cannot receive two-factor authentication codes.

2.2 GitHub TLDR

1. Go to [GitHub](#) to sign up
2. Create account (use @berkeley.edu email)
3. Create a good username
4. Add additional email addresses
5. Set up 2FA

- ☒ Install GitHub
- ☐ Install Visual Studio (VS) Code
- ☐ Install R
- ☐ Sign up for GitHub Copilot
- ☐ Copy GitHub repository/Download Zip file
- ☐ Adjust VSCode to work with R

3 Sign Up for GitHub Copilot (THIS SECTION NEEDS WORK)

Signing up for GitHub Copilot will depend on whether you plan to sign up for the free version, CoPilot *Pro* using verified information, or pay for a Pro plan ([see pricing information here](#)).

3.1 Copilot Pro (Instructions for Verification)

To get Copilot *Pro* for teachers and students (for free) you need to [apply here](#)

3.2 Free Version

The free version of GitHub Copilot comes with VSCode. You can install the necessary extensions in the following section.

3.3 Copilot TLDR

1. Sign up for Copilot *Pro* using student/teacher verification, paying a monthly fee, or using the free version.

-
- ☒ Install GitHub
 - ☐ Install Visual Studio (VS) Code
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 - ☐ Copy GitHub repository/Download Zip file
 - ☐ Adjust VSCode to work with R

4 Installing R

-
- ☒ Install GitHub
 - ☐ Install Visual Studio (VS) Code
 - ☐ Install R
 - ☒ Sign up for GitHub Copilot
 - ☐ Copy GitHub repository/Download Zip file
 - ☐ Adjust VSCode to work with R

5 Install VSCode

Let's move forward with installing VSCode. You can install [VSCode here](#) for your operating system. Below are detailed instructions on how to install VSCode.

5.1.a Mac (FIND Mac for install)

Link: <https://code.visualstudio.com/docs/setup/mac>

5.1.b Windows (FIND Windows for install)

Link: <https://code.visualstudio.com/docs/setup/windows>

5.1.c Linux

Note: Everything below shows installation using Linux Mint.

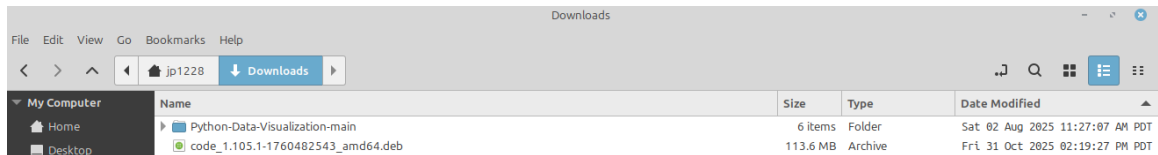
System:

Host: jp1228-Swift-SF314-52 Kernel: 6.8.0-87-generic arch: x86_64 bits: 64
Desktop: Cinnamon v: 6.4.8 Distro: Linux Mint 22.1 Xia

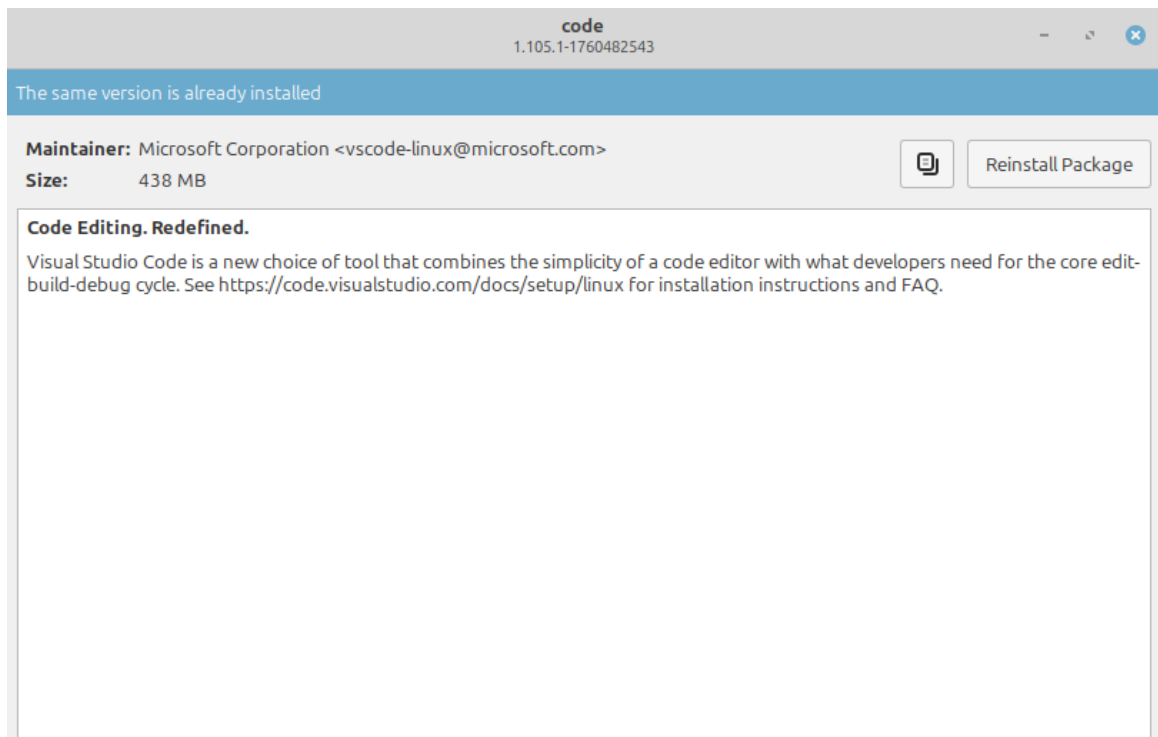
Link: <https://code.visualstudio.com/docs/setup/linux>

Option 1: Use the Link

1. Click on the link above and open the download file.



2. Click Install Package to start the install.



Option 2: Download Using Terminal

1. Update your programs.


```
jp1228@jp1228-Swift-SF314-52:~$ sudo apt update
```

2. Then you will install the file that you downloaded from [this page](#) as shown below. Your file will look different, depending on the version and differences in your linux distribution, but it should start downloading after running the code below.

```
sudo apt install ./<file_name>.deb
```

```
jp1228@jp1228-Swift-SF314-52:~$ sudo apt update
Hit:4 https://cloud.r-project.org/bin/linux/ubuntu noble-cran40/ InRelease
Hit:5 https://download.docker.com/linux/ubuntu noble InRelease
Hit:6 https://packages.microsoft.com/repos/code stable InRelease
Get:7 https://s3.amazonaws.com/repos.deb.cyberduck.io stable InRelease [3,245 B]
Hit:8 http://archive.ubuntu.com/ubuntu noble InRelease
Get:9 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:10 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:11 https://packages.cloud.google.com/apt cloud-sdk InRelease
Hit:12 https://repository.spotify.com stable InRelease
Get:13 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Err:7 https://s3.amazonaws.com/repos.deb.cyberduck.io stable InRelease
  The following signatures couldn't be verified because the public key is not available: NO_PUBKEY FE7097963FEFBE72
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/main i386 Packages [545 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1,573 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:18 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1,498 kB]
Get:19 http://archive.ubuntu.com/ubuntu noble-updates/universe i386 Packages [908 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [378 kB]
Get:21 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:22 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7,144 B]
Get:23 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:24 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [11.0 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:26 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]
Get:27 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:28 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.3 kB]
Get:29 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Reading package lists... Done
W: GPG error: https://s3.amazonaws.com/repos.deb.cyberduck.io stable InRelease: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY FE7097963FEFBE72
E: The repository 'https://s3.amazonaws.com/repos.deb.cyberduck.io stable InRelease' is not signed.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
jp1228@jp1228-Swift-SF314-52:~$ sudo apt install ./code_1.105.1-1766482543_amd64.deb
```

5.2 VSCode Documentation

When you installed VSCode, it should have brought you to the documentation page. If not, you can find all the [documentation here](#). [This tutorial](#) also provides an in-depth tutorial on getting started with VSCode.