

Walkthrough of Installing Everything Needed for GitHub Copilot

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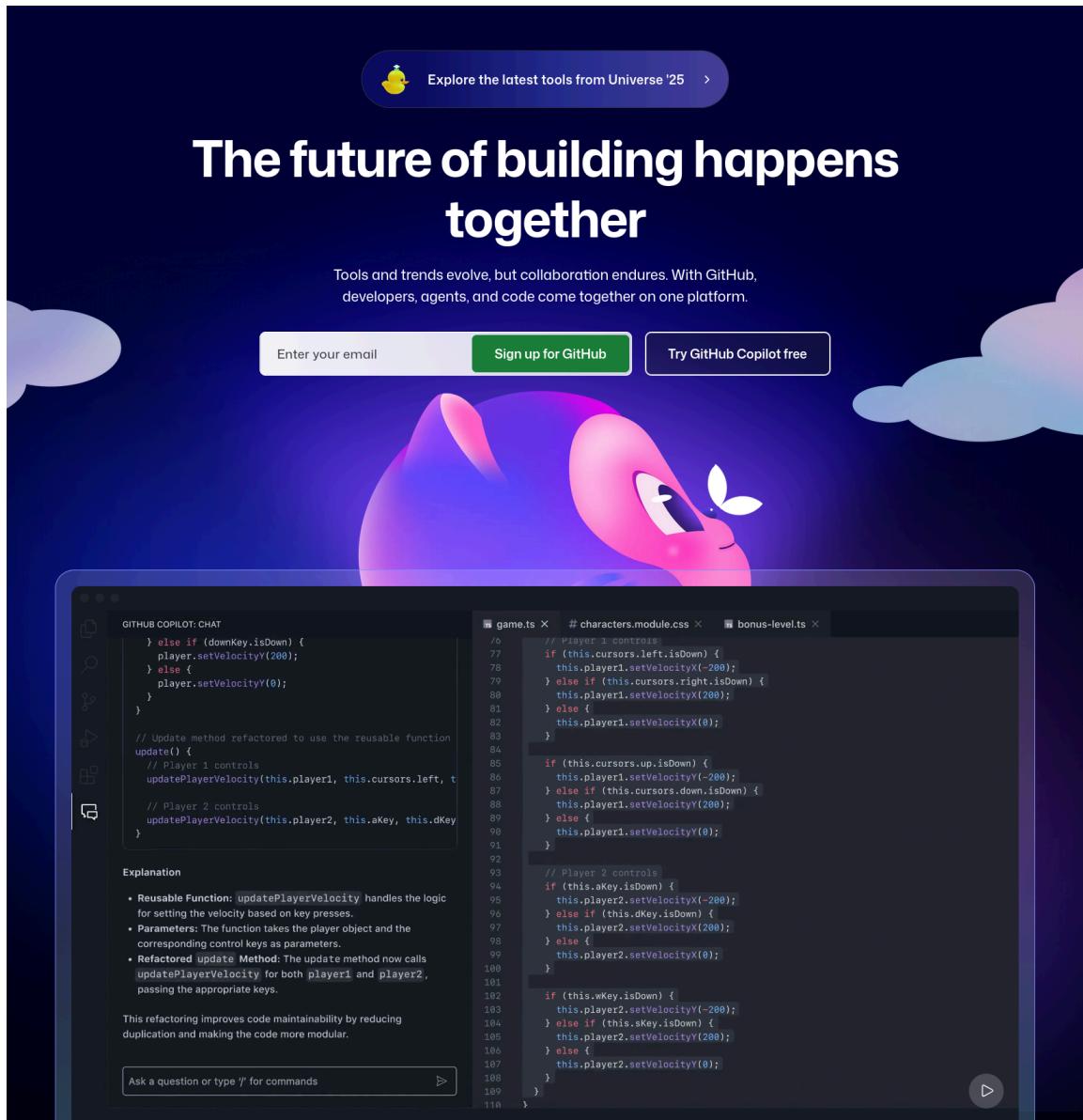
1 Checklist of Everything Needed to Install for AI-Assisted-Coding-In-R

- [] 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 (_)

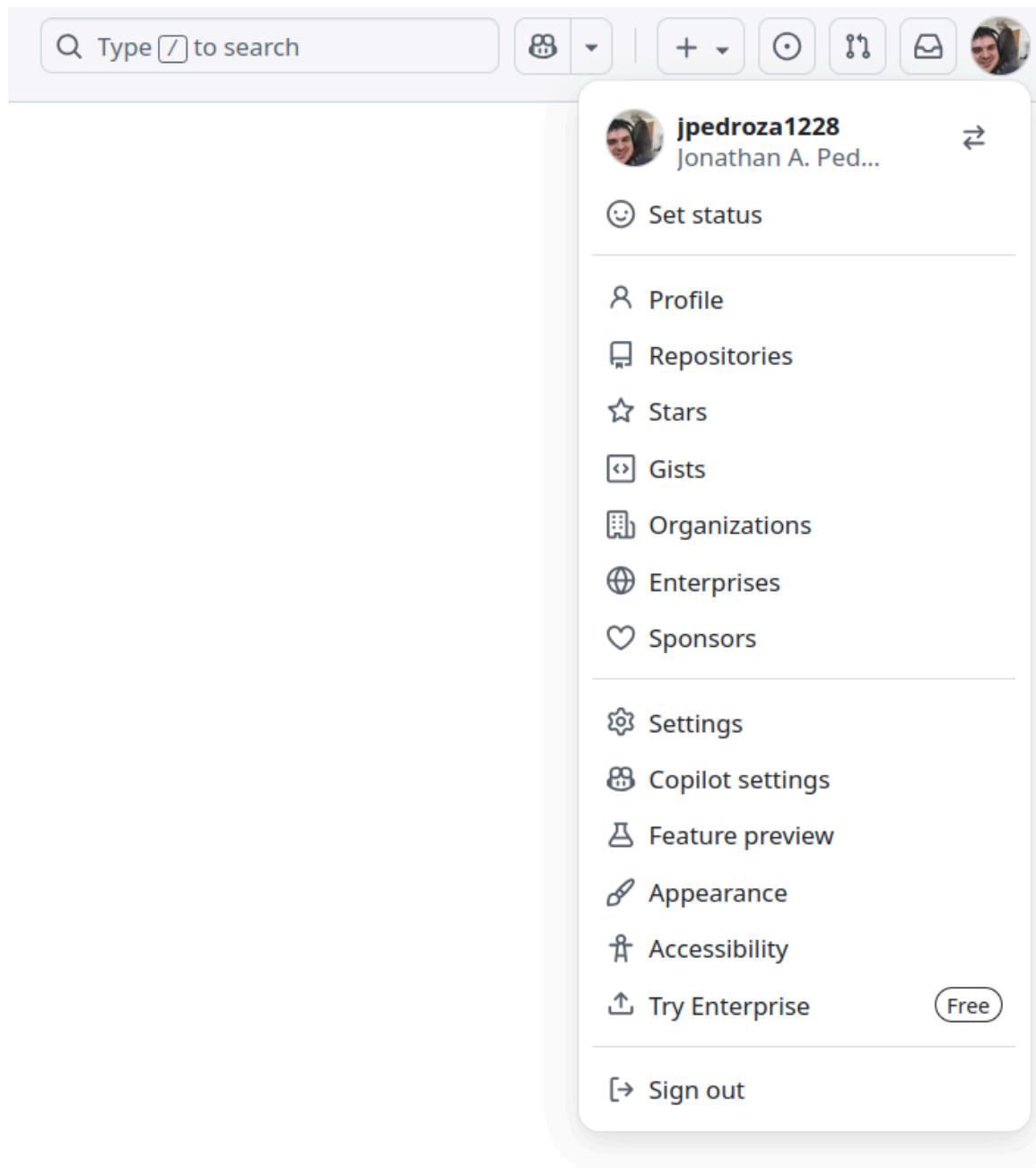
Once you sign in, you will be at your dashboard. You will come back to GitHub shortly to copy the information for the workshop materials.

The screenshot shows a GitHub dashboard. On the left, there's a sidebar titled "Top repositories" with a search bar and a "New" button. Below it is a list of repositories owned by the user "jpedroza1228": jpedroza1228/jonathanAPedroza.com, jpedroza1228/projects_portfolio_and_practice, jpedroza1228/medical_use_dashboard, jpedroza1228/liver_analyses, jpedroza1228/light_health_disparities, jpedroza1228/bayes-net-app, and jpedroza1228/data_visualizations. A "Show more" link is at the bottom. The main area is titled "Home" with a "Try the new experience" link. It features a search bar, a "Ask anything" input field, and a "GPT-4.1" AI interface. Below this is a "Feed" section for the repository "marimo-team/marimo". It shows a release note for version 0.17.6, stating "We've temporarily disabled the SQL linter as it causes freezing in the browser." The note includes a bullet point about disabling the SQL linter and a link to the full changelog. There are also sections for "What's Changed", "Contributors", and a "Sponsor" button.

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 \(Securing account with 2FA\)](#).



 **Public profile**

-  Account
-  Appearance
-  Accessibility
-  Notifications

Access

-  Billing and licensing 
-  Emails
-  Password and authentication
-  Sessions
-  SSH and GPG keys
-  Organizations
-  Enterprises
-  Moderation 

Code, planning, and automation

-  Repositories
-  Codespaces
-  Models 
-  Packages
-  Copilot 
-  Pages
-  Saved replies

Security

-  Code security

Integrations

-  Applications
-  Scheduled reminders

Archives

-  Security log
-  Sponsorship log

 Developer settings

Two-factor authentication

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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

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



SMS/Text message Less secure

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

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



GitHub Mobile

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

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

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

Siging 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.

-
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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.

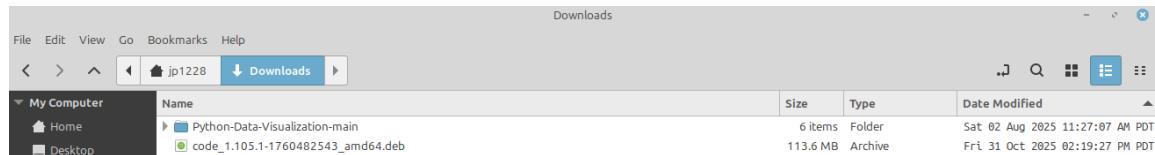
System:

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

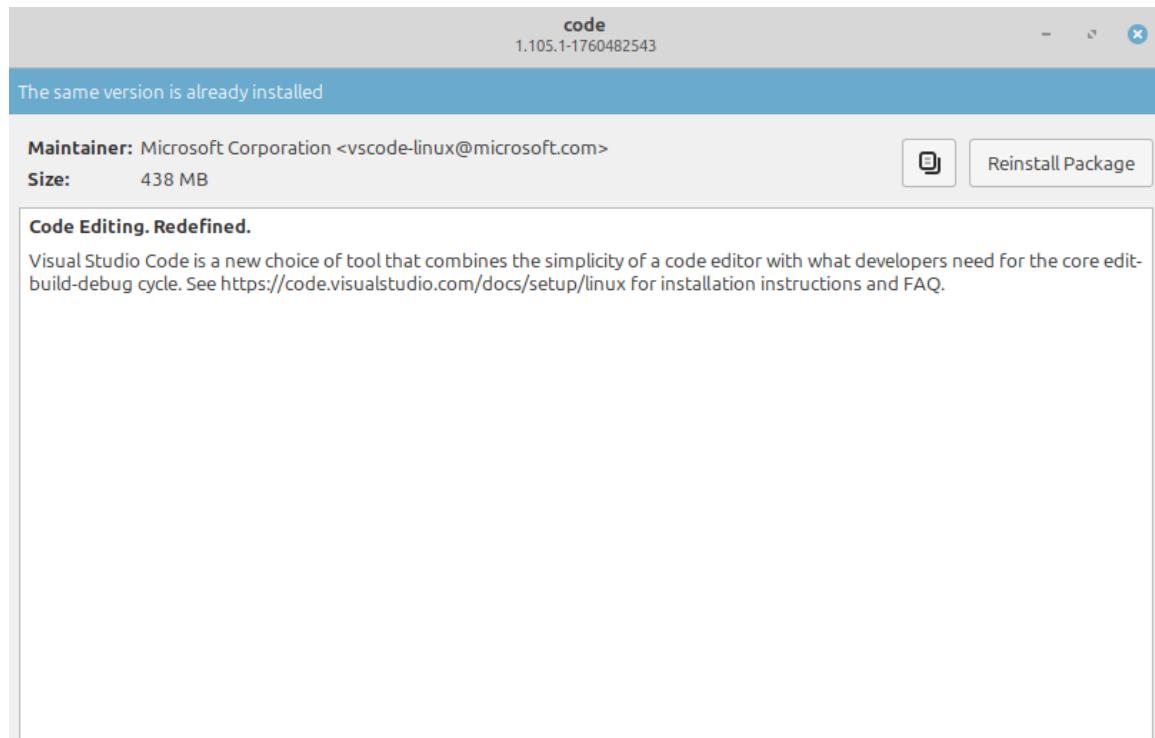
Link: <https://code.visualstudio.com/docs/setup/linux>

Option 1: Use the Link

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

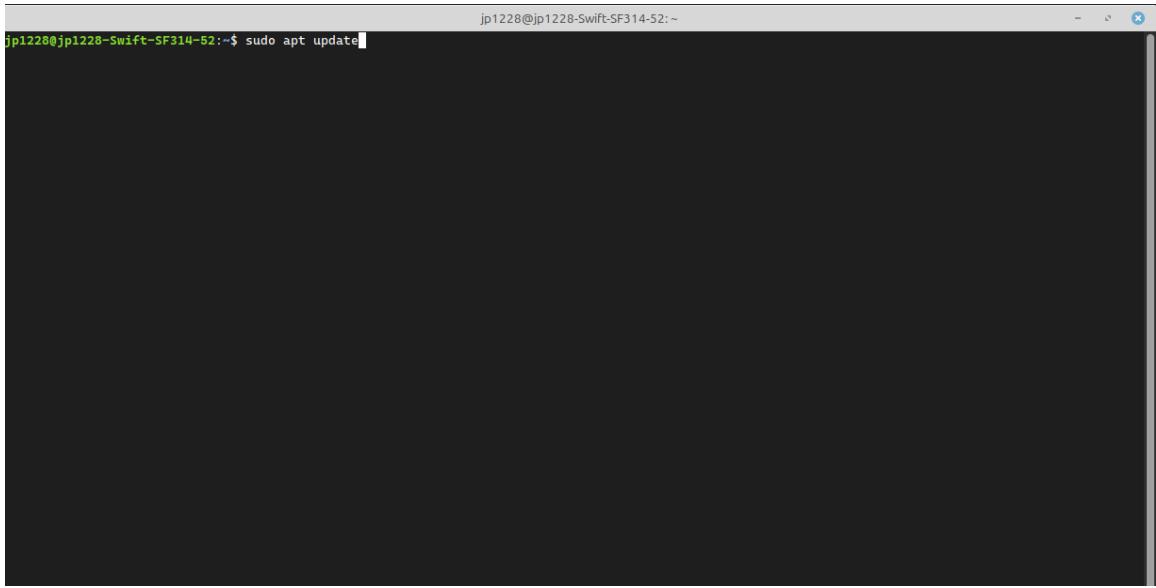


2. Click Install Package to start the install.



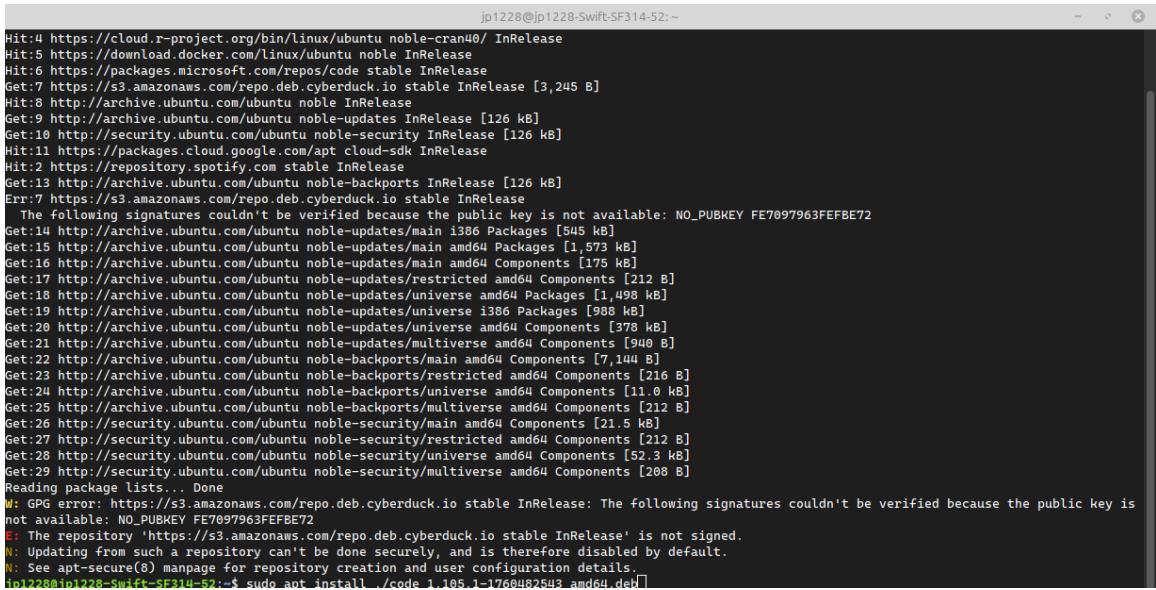
Option 2: Download Using Terminal

1. Update your programs.

A screenshot of a terminal window titled 'jp1228@jp1228-Swift-SF314-52:~'. The window contains the command 'sudo apt update' in green text at the top. The rest of the window is blank black space.

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
```

A screenshot of a terminal window titled 'jp1228@jp1228-Swift-SF314-52:~'. The window shows the command 'sudo apt install ./code_1.105.1-1760482543_amd64.deb' being run. The output of the command is displayed, showing various package downloads and errors related to GPG signatures.

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.