

# Host Parasite Coevolution Module (University of Muesnter)

This guide will walk you through the process of installing Julia, setting up Visual Studio Code (VSCode), creating a GitHub account, signing up for GitHub Copilot, and configuring everything so you can start coding with Julia and GitHub Copilot's AI assistance.

## Step 1: Install Julia

1. **Download Julia:** Go to the **Julia Language official website:** <https://julialang.org/> and download the latest version of Julia, which, as of today, is version 1.10.0. Choose the installer that matches your operating system (Windows, macOS, or Linux).
2. **Install Julia:** Run the downloaded installer and follow the on-screen instructions to install Julia on your computer.
3. **Verify Installation:**
  - **Linux:** Open your terminal and type `julia`. If Julia is correctly installed, the Julia REPL (Read-Eval-Print Loop) should start.
  - **Windows and macOS:** Find and open the Julia application (you might have an icon for it). Opening it should launch the Julia REPL.

## Step 2: Install Visual Studio Code (VSCode)

1. **Download VSCode:** Visit the **Visual Studio Code website:** <https://code.visualstudio.com/> and download the version of VSCode for your operating system.
2. **Install VSCode:** Open the downloaded file and complete the installation process following the instructions provided.

## Step 3: Sign Up for a GitHub Account

1. **Create an Account:** Go to **GitHub's website:** <https://github.com> and sign up for a new account by following the signup process.

## Step 4: Sign Up for GitHub Copilot

1. **Subscribe to GitHub Copilot:** Navigate to the **GitHub Copilot plans page:** <https://github.com/features/copilot/plans> and choose the plan that suits you. There is a free plan available for verified students.

## Step 5: Sign in to Your GitHub Account in VSCode

1. **Access GitHub in VSCode:** Open VSCode, go to the "Accounts" section (usually found in the bottom left corner or via the command palette), and

sign in with your GitHub account credentials.

#### **Step 6: Install the Julia Extension in VSCode**

1. **Open Extension Marketplace:** In VSCode, go to the Extensions view by clicking on the square icon on the side bar or pressing **Ctrl+Shift+X**.
2. **Search for Julia:** Type “Julia” into the search bar, find the Julia extension by ‘julialang’, and click on the “Install” button.
3. **Search for Copilot:** Type “GitHub Copilot” into the search bar, find the Copilot extension, and click on the “Install” button.
4. **Verify Extension Installation:** After installation, you can open a `.jl` file to see if the syntax highlighting and other features provided by the Julia extension are working.

By following these steps, you will have Julia and GitHub Copilot set up in VS-Code, allowing you to leverage the powerful combination of Julia’s computational capabilities and GitHub Copilot’s AI-driven code assistance for your projects.

**Final step: download the repository build for this course  
GitHub repository for the course**

**Happy Coding !!!**