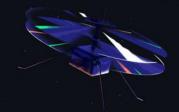


GitHub Copilot Training C/C++ Focus

Andrew Scoppa





GitHub Copilot Fundamentals



VS Code Settings

Configuration Options



Status: Ready

GitHub Copilot Chat

Open Completions Panel...

Disable Completions

Disable Completions for 'markdown'

Edit Keyboard Shortcuts...

Edit Settings...

Show Diagnostics...

Open Logs...

Configuring GitHub Copilot in your environment





Let's start with a high-level overview of GitHub Copilot

- GitHub Copilot is there to enhance daily work
 - Like a smart assistant or mentor by your side
- Draws context from text & code in open tabs
- Powered by OpenAI
 - Copilot uses a transformative model
 - Think of something like Google Translate
- Trained on large datasets to ensure accuracy
 - It even can help with HTML and markdown!
- Available as an extension to IDEs and editors



Providing Context

To help Copilot generate accurate suggestions:

- Add a top-level comment block describing the purpose of the file
- -- Provide detailed comment block for operations
- Have related content open in other tabs

```
C+ task.cpp
               • helpers.hpp X
6 helpers.hpp > 分 GetCurrentDate()
        * Generate a function that returns the current date as a string.
        * Arguments: None
        * Returns: A string representing the current date
        * Details:
        * - Get the current time using std::time(0)
        * - Convert the current time to a string using std::ctime
        * - Remove the newline character from the end of the string
 94
        * - Return the current date as a string
        * Example: "Sun Sep 16 01:03:52 1973"
 96
       std::string GetCurrentDate()
 99
100
        std::time t now = std::time(0);
         std::string currentDate = std::ctime(&now);
101
102
          -currentDate.pop back();
103
        ···return currentDate;
104
```



Copilot vs Copilot Chat

Copilot

Direct Code Writing

Seamless IDE Integration

Solo Development

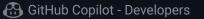
Copilot Chat

In-Depth Interactive Assistance

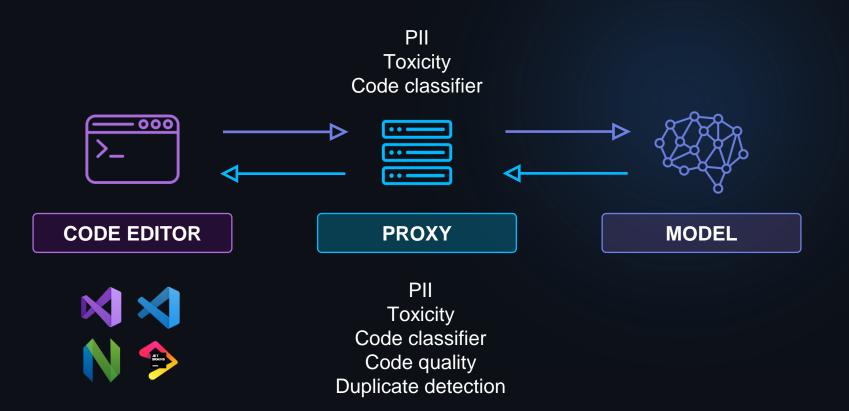
Learning & Teaching

Collaborative Scenarios

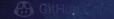




Data flow through the Copilot ecosystem







Demos

Thankyou