

Bryan San Juan April 2024



Agenda

- What is GitHub Copilot?
- How does GitHub Copilot work?
- Hands-on Demo:
 - Create an Address Book Spring Boot application
 - Introduce Copilot sidebar & chat
 - Prompt via single line comment
 - Prompt via method name
 - Introduce predefined functions via right click
 - Create Test
 - Generate Test for service implementation
 - Containerize & Deploy the application in a local Kubernetes cluster
- Q&A



What is GitHub Copilot?

GitHub Copilot is an **AI coding assistant** that helps you write code faster and with less effort, allowing you to focus more energy on problem solving and collaboration. Copilot **offers coding suggestions** as you type: sometimes the **completion** of the **current line**, sometimes a **whole new block of code**. You can accept all, or part, of a suggestion, or you can ignore the suggestion and keep typing.

```
test.js > ② classSwap

// Find all classes that start with section

// and add a new class called section-new

function classSwap (section) {

var section = document.getElementsByClassName(section);

for (var i = 0; i < section.length; i++) {

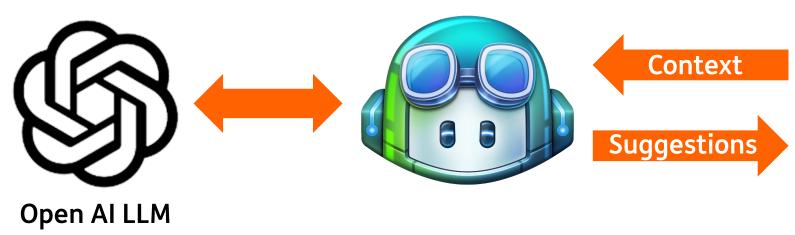
    section[i].classList.add("section-new");
}

}</pre>
```

```
testry

1
```

How does GitHub Copilot work?



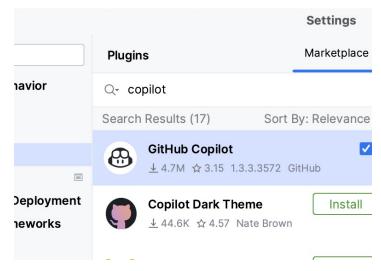
```
parse_expenses.py X
addresses.rb X
                                           sentiments.ts ×
      import datetime
      def parse_expenses (expenses_string):
          Ignore lines starting with #.
          Parse the date using datetime.
              2023-01-02 -34.01 USD
             2023-01-03 2.59 DKK
             2023-01-03 -2.72 EUR
          for line in expenses_string.splitlines():
             if line.startswith("#"):
             date, value, currency = line.split (" ")
              expenses.append((datetime.datetime.strptime (date, "%Y-%m-
      expenses_data = '''2023-01-02 -34.01 USD
                     2023-01-03 2.59 DKK
                     2023-01-03 -2.72 EUR'''
```

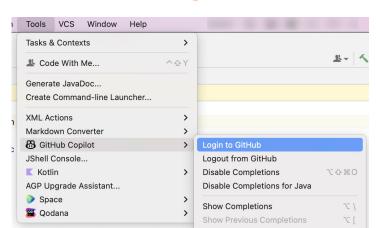
Setup GitHub Copilot

1. Get Subscription



2. Install extension to supported IDE





Open GitHub Copilot

3. Login

4. Familiarize with keyboard shortcuts

| OS | Accept suggestion | See next suggestion | See previous suggestion | Accept next word | Accept next line |
|---------|----------------------|---------------------|-------------------------|---------------------|-----------------------|
| macOS | tab | Option +] | Option + [| Command + → | Command + Control + → |
| Windows | tab | Alt +] | Alt + [| Control + → | Control + Alt + → |
| Linux | tab | Alt +] | Alt + [| Control + → | Control + Alt + → |

DEMO TIME

- Linkedin.com/company/ing-hubs-philippines/
- Facebook.com/INGHubsPhilippines
- https://www.ing.jobs/Philippines/home.htm

Feedback, Questions & Answers

- Linkedin.com/company/ing-hubs-philippines/
- Facebook.com/INGHubsPhilippines
- https://www.ing.jobs/Philippines/home.htm



do your thing