🚀 AI-Assisted Coding an introduction

by Raoul Nottrott & Sebastian Gnip

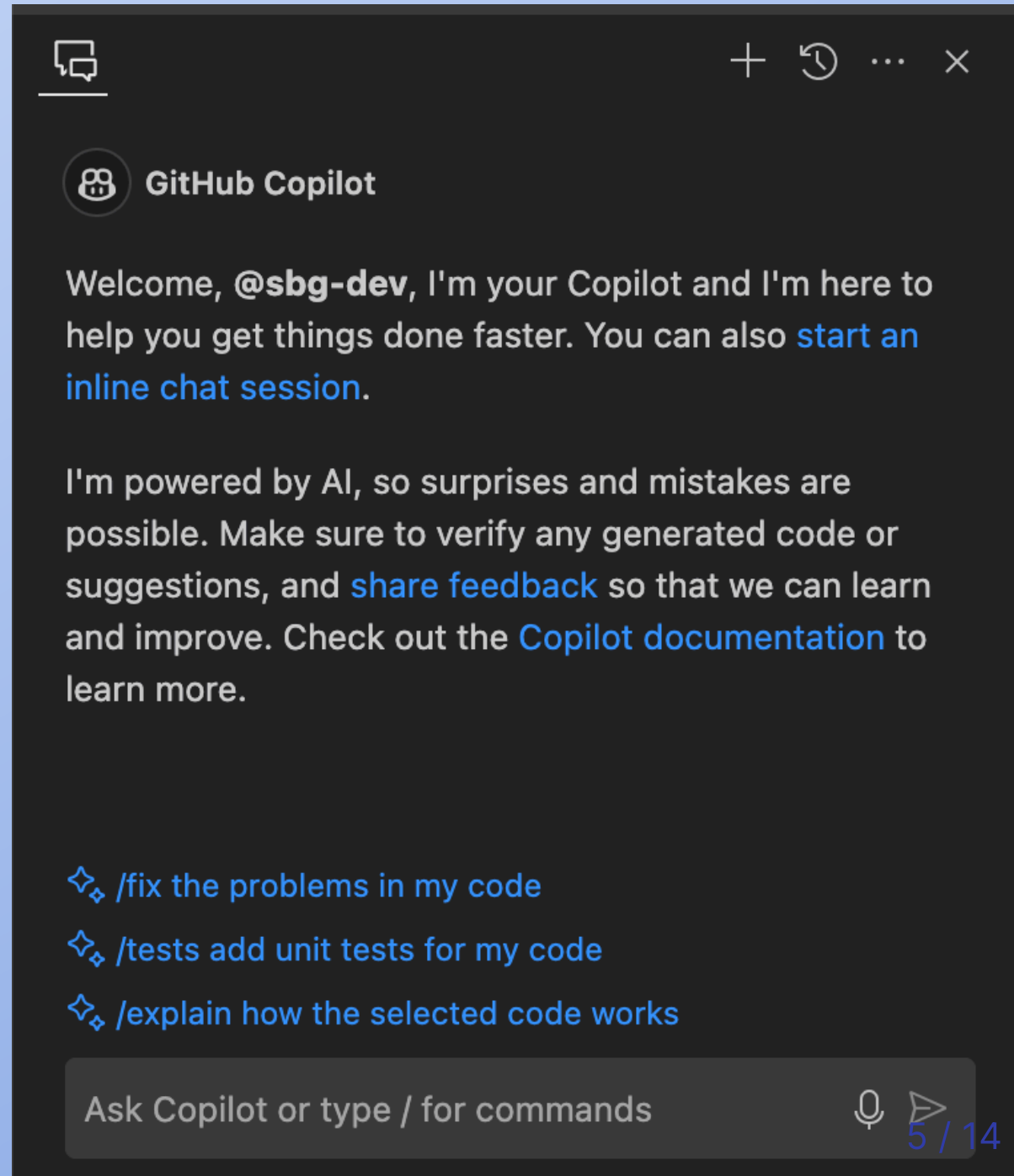**using GitHub Copilot**

Agenda

1. 🧑‍💻 Introduction to AI-assisted coding [30 - 45 min]

2. 📊 Facts and statistics

3. 🌐 Alternatives

4. 💰 Pricing

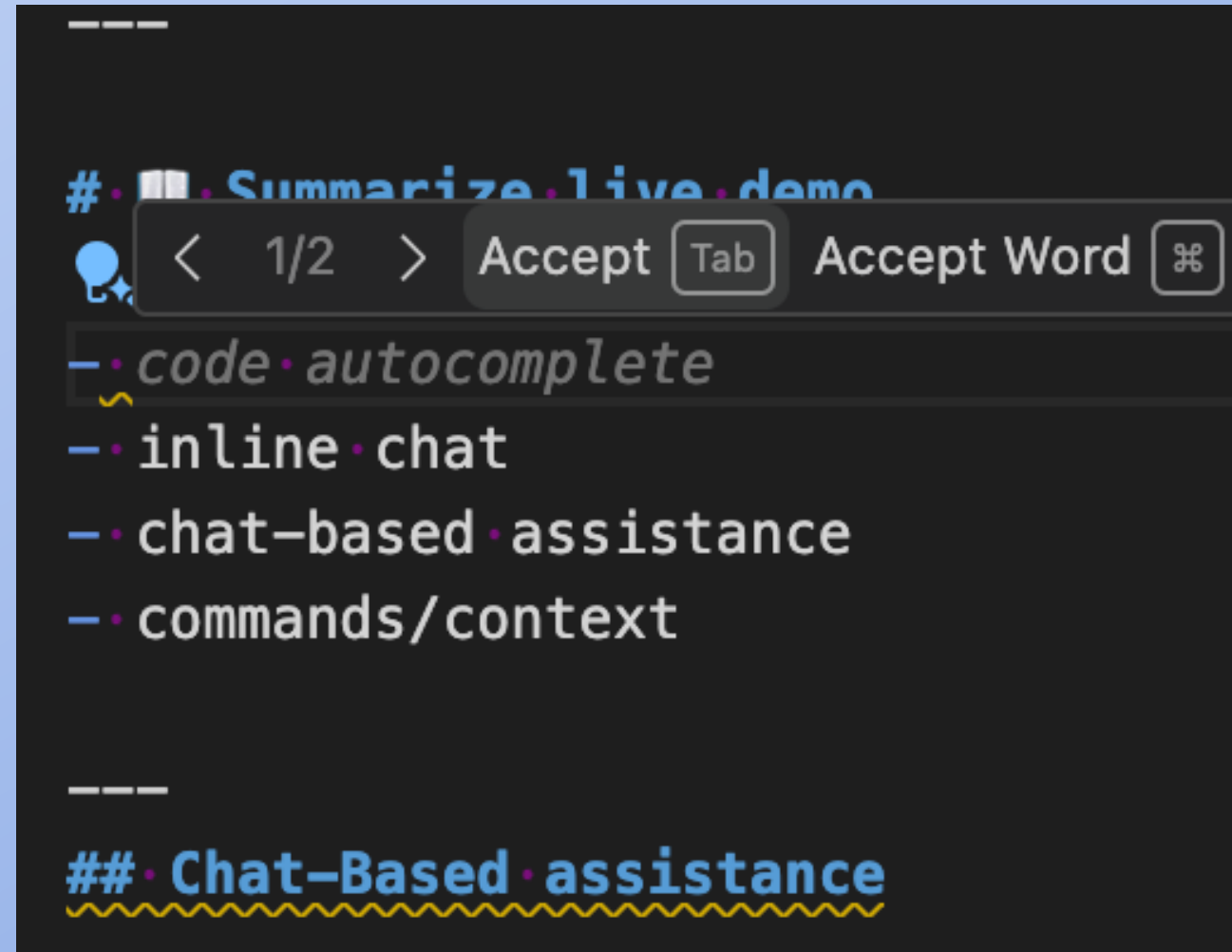5. 💬 Discussion and Q&A

Live Demo 👩‍💻

- Does this increase productivity?

- Will this reduce errors and bugs?

- Will you learn faster and onboard new developers faster?

- Will this enhance code quality and consistency?

📖 Summarize live demo

Chat-Based assistance

GitHub Copilot

Welcome, **@sbg-dev**, I'm your Copilot and I'm here to help you get things done faster. You can also start an inline chat session.

I'm powered by AI, so surprises and mistakes are possible. Make sure to verify any generated code or suggestions, and share feedback so that we can learn and improve. Check out the Copilot documentation to learn more.

✧ /fix the problems in my code

✧ /tests add unit tests for my code

✧ /explain how the selected code works

Ask Copilot or type / for commands

Code completion

📖 Summarize live demo

- *code autocomplete*
- inline chat
- chat-based assistance
- commands/context

Chat-Based assistance

1/2 Accept Tab Accept Word ⌘

Inline chat

```
49   ---
50
51   # 📖 Summarize live demo
52
53   - code autocomplete
```

┌───┐
│ Ask Copilot or type / for commands   🎤 ➤   ✕ ⋯ │
└───┘
   🐙 Copilot generated code may be incorrect

```
54   - inline chat
55   - chat-based assistance
56   - commands/context
57
58   ---
59
```
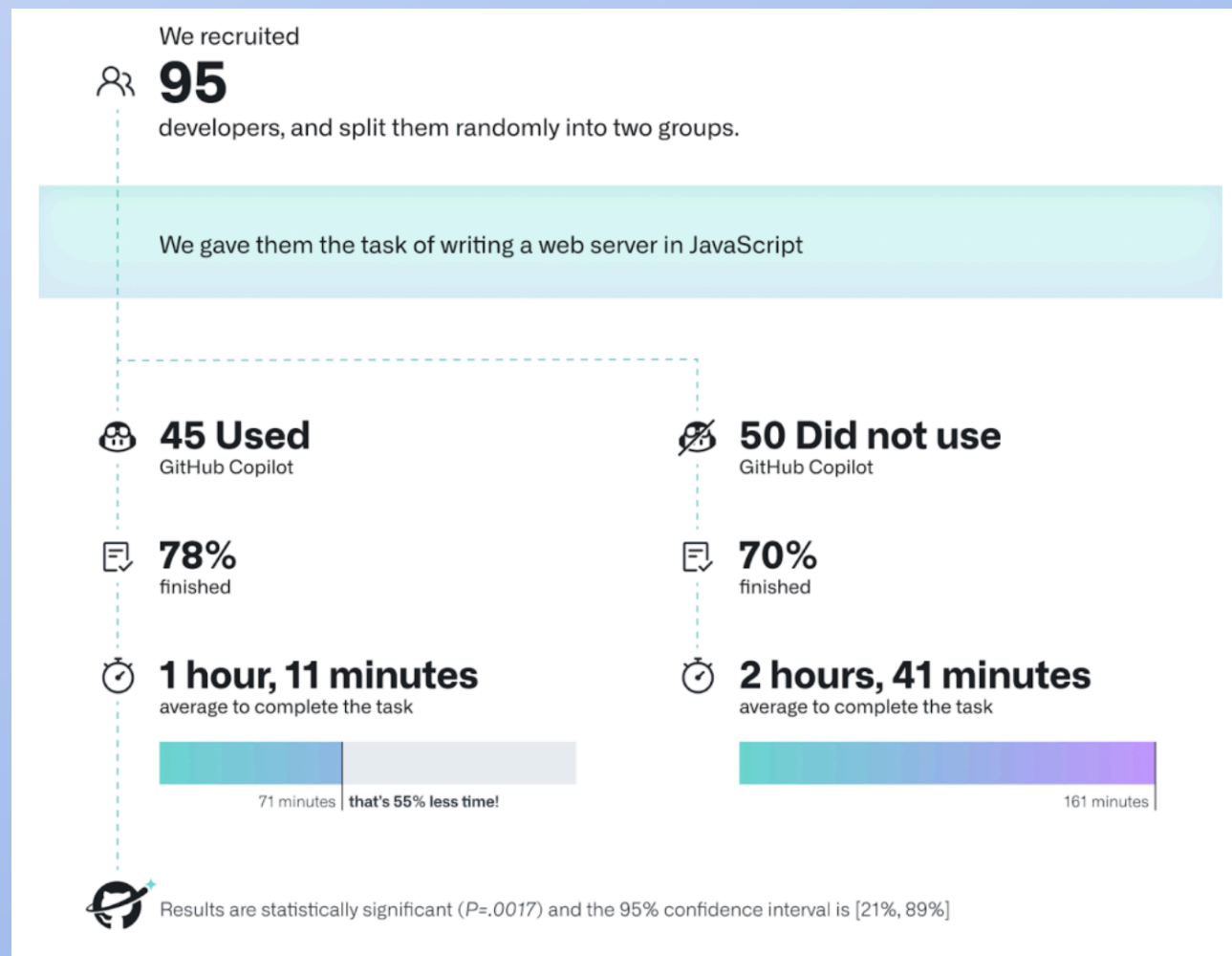
Commands/Context
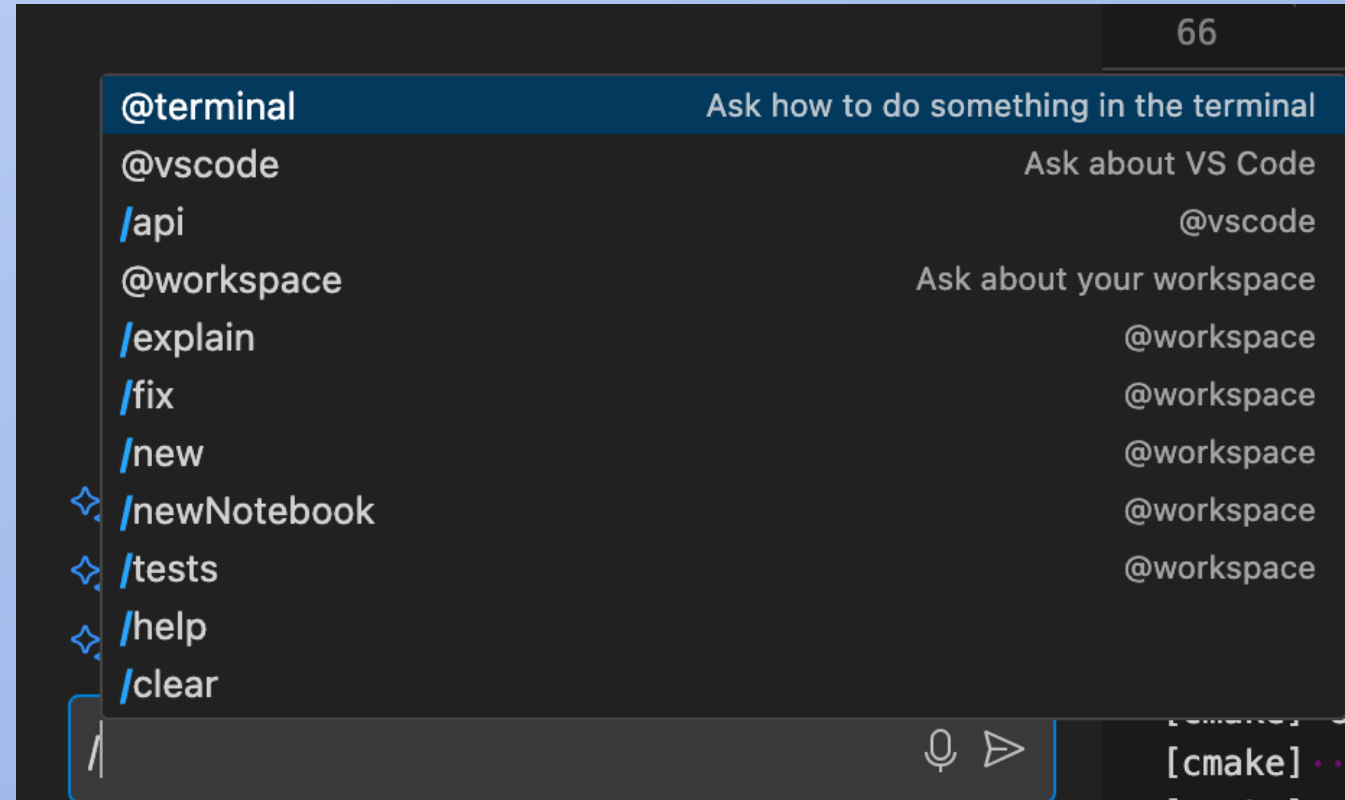
📊 Facts and statistics about Copilot

- Copilot is trained continuously on public code from GitHub and other sources
  - It includes our Basler Product Documentation 😁
- Copilot analyzes the context in the editor
  - include open files and dependencies
  - generate suggestions probabilistically
  - ❗ without copying local code

🧑‍🔬 Study about GitHub Copilot

🌐 **Alternatives**

- **Codeium**
- Tabnine
- CodeWhisperer (Amazon)
- ML-enhanced code completion (Google)
- **ChatGPT** (OpenAI)
- **Copilot** (Microsoft)

9 Free and Paid GitHub Copilot alternatives in 2024

💰 Pricing for GitHub Copilot

- Copilot Individual 10$ a month/user (not for Business use)

- Copilot Business 19$ a month/user

- Copilot Enterprise 39$ a month/user

Discussion and Q&A 💭

References

Sample code: https://github.com/sbg-dev/introduction_copilot

GitHub Copilot: https://copilot.github.com

Quickstart GitHub Colipot: https://docs.github.com/de/copilot/quickstart