

# From Fuzzy to Fluent

**Semantic Code Search in Vim/Neovim**

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**TS/Go/Python/C++ ...**



**About 10 years**



# Finder

また

*Fuzzy Finder*か!

*Yet Another*

*Fuzzy Finder AGAIN!?*

No, It's

Fluent.

Lingur

# Motivation

Finding code is **difficult**

"Searching with different verb with **same meaning**"

"Can't think of what words to search"

→ Cannot use **synonym** or **sentences**

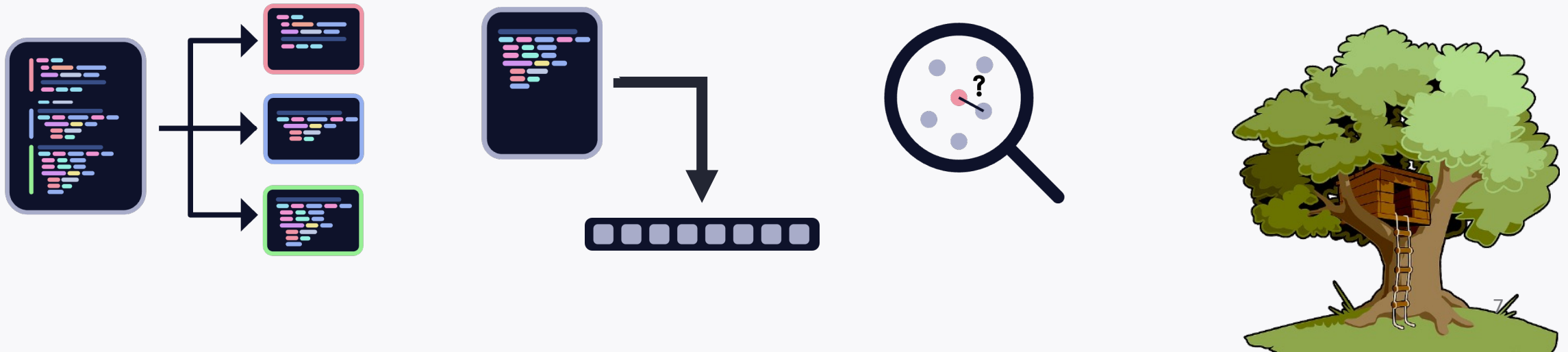
# What is Fluent Finder and flf-vim



flf-vim

flf-vim finds code **semantically**

→ AI **understands** the meaning of the code



# Example 1: FlfDir



flf-vim



# Problem

":FlfDir" takes a **very long** time

**Example: Analyze vim source code**

→ It takes



flf-vim

# Problem

":FlfDir" takes a **very long** time

Example: Analyze vim source code

→ It takes **over 1 hour**



flf-vim



# Problem



flf-vim

“

Not Fluent

de



# Example 2: FlfBuf



flf-vim



# Embedding Model

Use SLM(Small language models)

- Safe
- Cost-Effective
- Even fast



flf-vim

# Embedding Model

**"ruri-v3-70m-code-v-0.1"**  
**- Finetuned "ruri"**



flf-vim

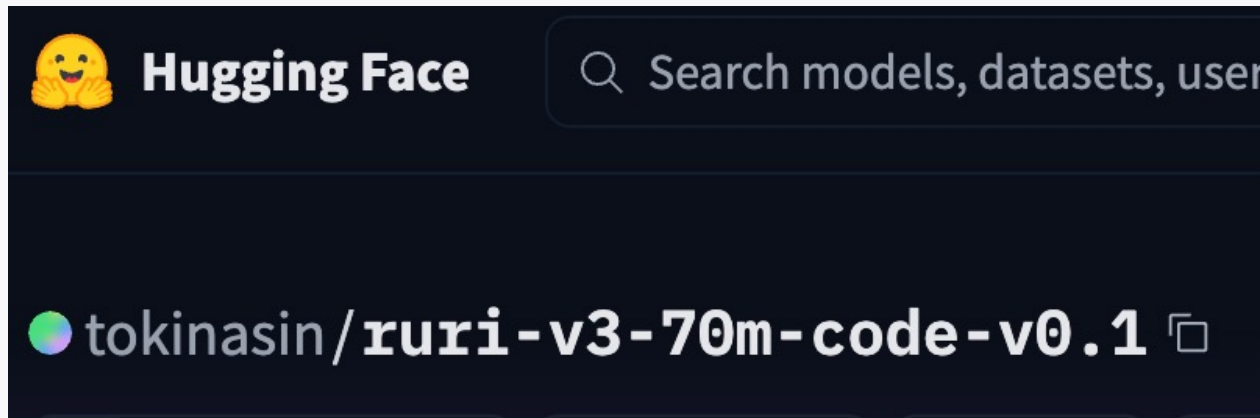
# Embedding Model

"ruri-v3-70m-code-v-0.1"

- Finetuned "ruri"



flf-vim



# Conclusion



flf-vim

**flf-vim allows searching  
with natural languages**



# More things to talk...



flf-vim

- **Unclear behavior in Vim's `:buffer`**
- **A bug I found during development that crashes Bun.js in just 4 lines**
- **Hacks to support both Vim and Neovim**

**Thank you!**