

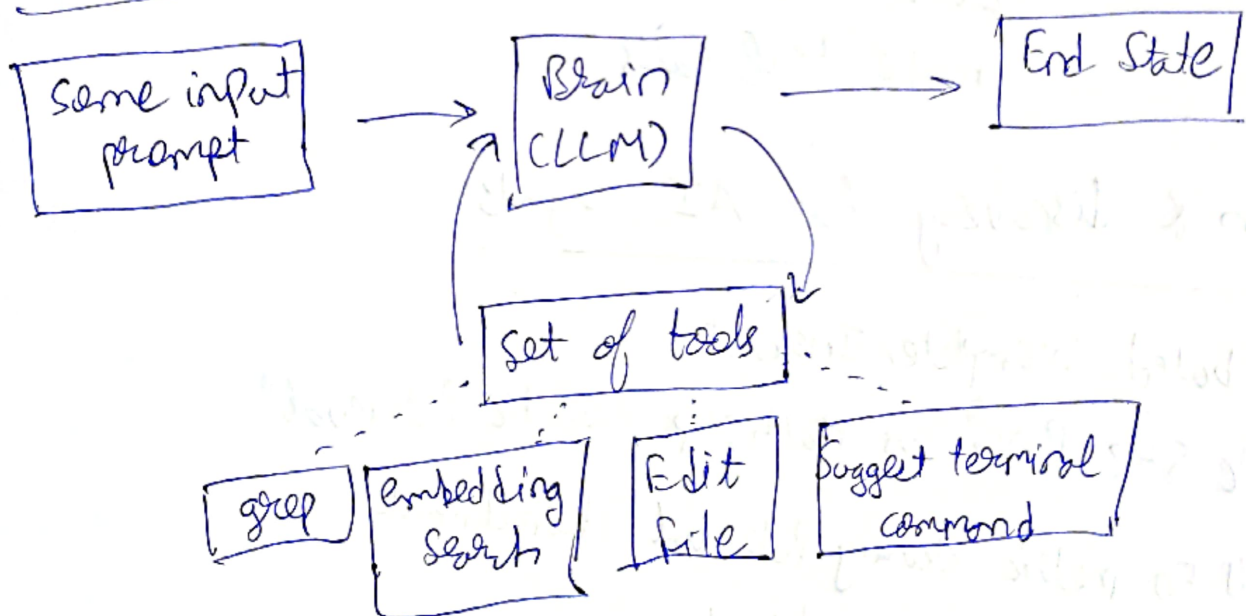
Build apps w/ Windows AI Coding Agents

May 17 2025

- VS Code Fork
- Coscode: AI Collaborative agent (Ctrl + L)
- Command Palette (Ctrl + Shift + P)
- Ex: Snake game w/ custom features
- Humans → Copilots → Autonomous Agents → Collaborative Agents
(Enhanced w/ RAG) (tools, chain of actions, reasoning) (Aka Flows)
- Ex: Devs

- Ex: Fixing tests Automatically : Understanding Existing Code → Uses Set of tools → Understands dev intent

How a Collaborative Code agent works



- Axes: Reasoning model, tools set, Context awareness, Human actions
- Collins's Journey For AutoComplete: Not only tools/models are imp, but also context awareness and understanding human actions

Tools: Actions an agent can take in the LLM processing steps

- ① Search & Discovery: grep, listdir, web search, MCP, emb search
- ② Change State: make edit, add file
- ③ Verification: terminal commands

Takeaways:

- Context awareness brings in explicit knowledge
- Human actions bring in implicit intent
- Tools take action
- LLM used to combine these & make tool calls

Search & discovery for AI agents

- Distributed, incomplete, inexact
- Single step RAG vs Multi step "Agentic Retrieval"
- Recall 50 metric during Retrieval benchmark
- Commit message Bank dataset
- Riptide (Codium LLM retriever): using LLM for relevance & reranking

Understanding large codebases

- @: to mention code blocks (Files, folders)
- Multistep retrieval using GPT4o tool call (i.e. Searched Codebase) for query to get relevant context
- web search: to get current info on libraries

Wikipedia Data analysis app

UX ones: Capabilities, Guidance, Observability, Polish

- Clear prompts & good models give better responses
- Open diff (in chat), Cascade bar: to view changes, Accept All
- window Settings (Bottom bar) → Global AI rules, memories
(Ex: Use python3 instead of python, pip3 instead of pip)
- allow list, deny list, turbo (v0.0) mode
- Run terminal command & go to terminal button
- Revert to Step option to get back on track - this will rollback edits and reset chat from that point
- bar above chat input shows files changed & running terminal processes.
- Code lenses: Select a function, these options appear ← explain
refactor
add docstring
- command: Ctrl I: Instructions inside files itself
- Tab autocompletion
- @ mentions: to guide context source
- multimodal inputs: images with annotations in text