

Cursor AI For Advanced Users L-2

Codebase Indexing &
Context

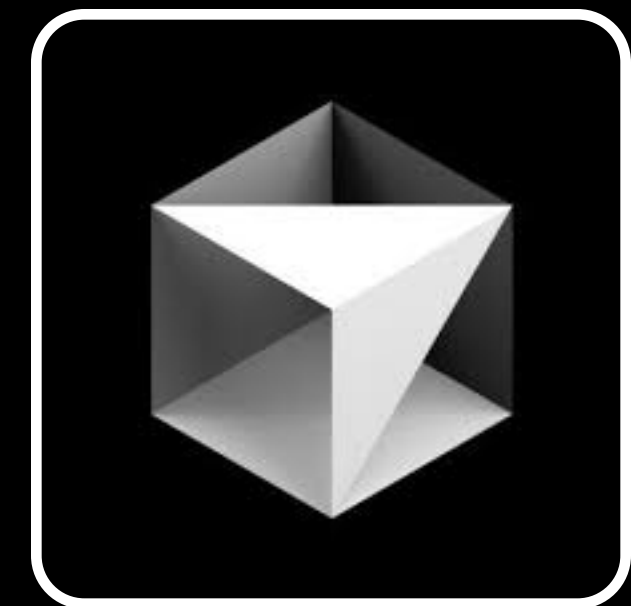


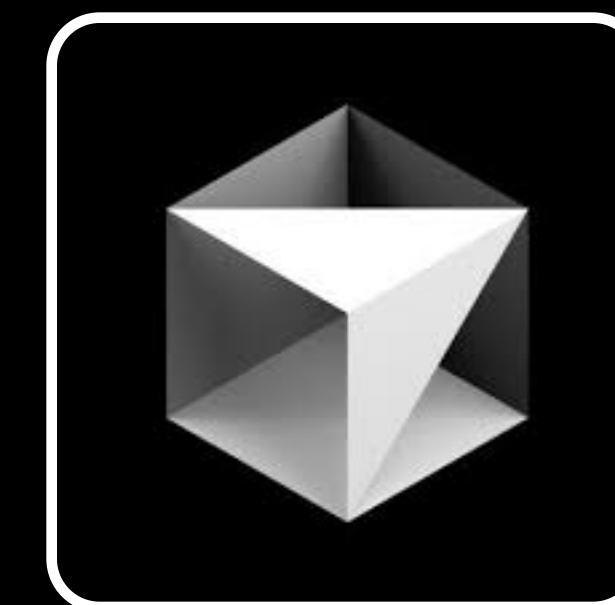
Overview

- Context is what makes AI useful - without it, even the smartest model guesses
- Cursor builds and uses project-wide understanding through indexing
- @-ref let us direct the AI's attention to the right files or symbols
- Together, they turn cursor from a "helper" into a true engineering partner



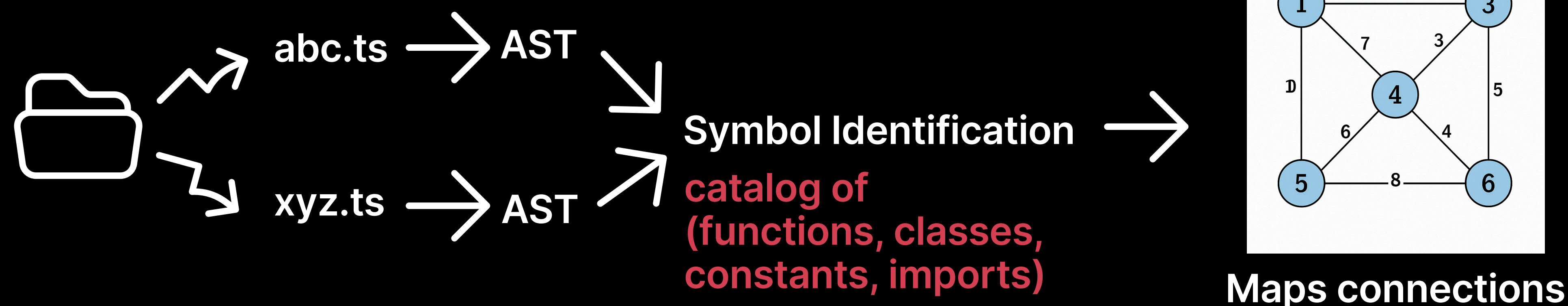
From guessing to knowing



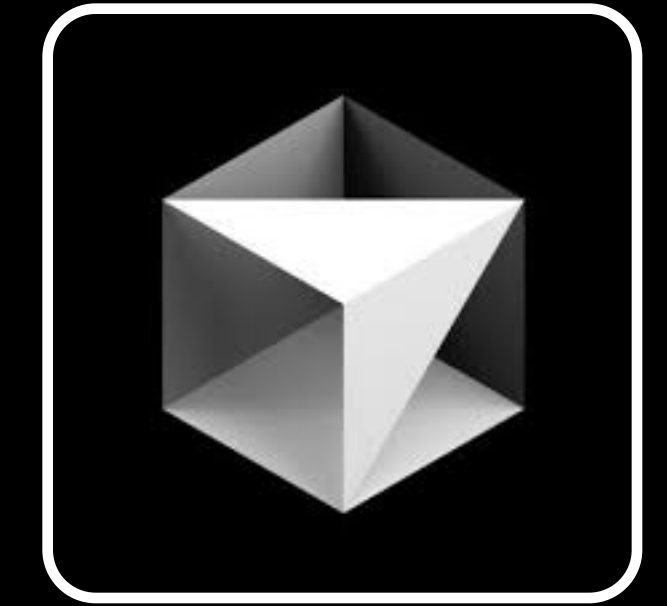


Codebase Indexing

- When you open a **folder**, Cursor starts **scanning** your entire project automatically
- It doesn't just read file names - **it parses code structure (Abstract Syntax Tree) (AST)**
- Builds a **semantic map**: functions → classes → relationships → dependencies
- Knows who calls whom, where variables live, and how files connect



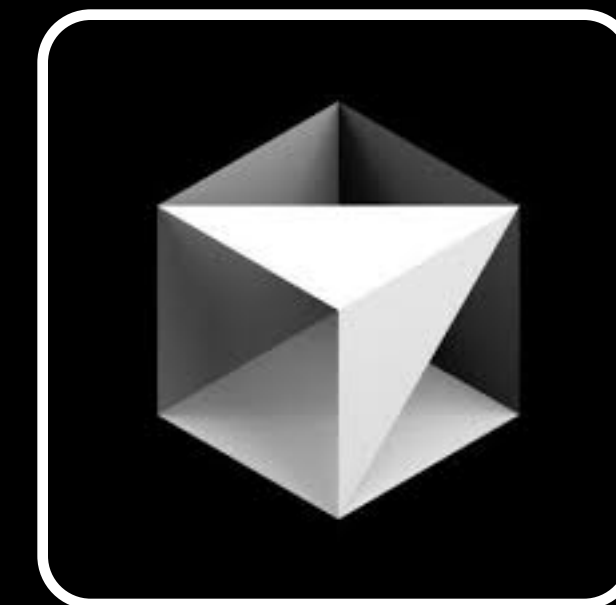
Significance



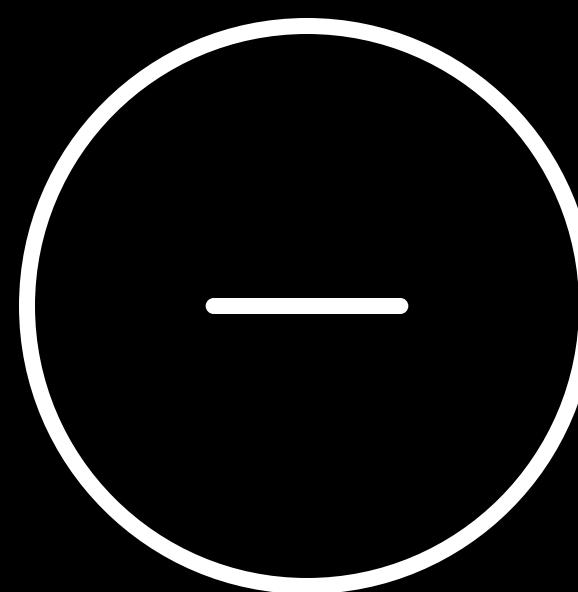
- When you ask a question or give a command
 - converts your prompt into a vector and looks at these embeddings for the most semantically related files/snippets
 - uses those as context for the LLM

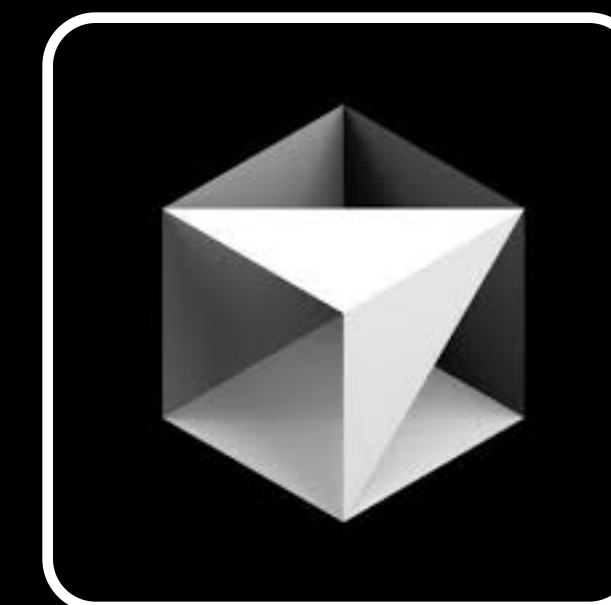


.cursorignore



- Not used for indexing
- Inherits .gitignore





@-ref (Hey AI, look here)

- Generate tests for a file
- Multiple files
- Function in a file
- Web

