



Effective Use of Cursor AI: The Ultimate Developer Guide (2025 Edition)

Core Capabilities of Cursor AI

AI-First Code Editor Architecture: Cursor AI is a standalone code editor (forked from VS Code) that deeply integrates AI into the development workflow ¹. Unlike IDE plugins, Cursor is built around an AI agent architecture – essentially ChatGPT/Claude *inside* your editor – with tools for reading, editing, and executing code. It's powered by a mix of models: a custom fine-tuned GPT-3.5 (code-named **cursor-fast** or "Claude 3.5 Sonnet") for speed ² ³, plus access to "frontier" models like GPT-4 (including 32k context *GPT-4o*) and Anthropic's Claude (e.g. Claude 3 "Opus") on higher tiers ² ⁴. Pro users can even bring their own API keys for OpenAI, Anthropic, or Google Gemini, giving flexibility in model choice ⁵ ⁶. All code processing happens via cloud LLMs (no fully offline mode as of 2025), but **Privacy Mode** can be enabled so your code is not stored remotely ⁷. Under the hood, Cursor orchestrates complex prompt payloads including hidden system instructions, semantic code context, and tool schemas – effectively turning the editor into an AI agent that can plan and apply changes across your project ⁸ ⁹.

Language & Framework Support: As a VS Code-derived editor, Cursor works with virtually any programming language or file type (front-end, back-end, scripts, config files, etc.). It supports syntax highlighting, extensions, and developer tools for popular languages out-of-the-box, and the AI models have been trained on a broad range of languages and frameworks ¹⁰ ¹¹. Users report success using Cursor for Python, JavaScript/TypeScript (Node, Next.js, React), Java, C#, C++, Go, Ruby, SQL, shell scripts, Markdown/LaTeX, and more. In short, if VS Code can handle it, Cursor's AI can likely assist with it. The editor also indexes your entire codebase for semantic search, so it can **understand multi-file projects** and even large monorepos (vector-embedding your repo to fetch relevant pieces on the fly) ¹². This means Cursor is aware of your project structure, dependencies, and file contents in a way typical code assistants (limited to a single file or small context) are not ¹³ ¹⁴.

Key Use Cases & Features: Cursor's feature set is geared toward making the development process faster and more "conversational." Major capabilities include:

- **AI Pair Programming & Autocomplete ("Tab"):** As you code, Cursor provides *psychic* autocomplete suggestions. Hitting `Tab` accepts AI-generated completions that often span multiple lines or even entire functions, not just the token ahead ¹⁵ ¹⁶. It analyzes your current file and recent edits to predict what you want next – users describe it as "having an AI pair programmer that anticipates your needs" ¹⁷ ¹⁸. The Pro tier's **Copilot++** enhances this further by modifying surrounding lines in concert with your changes. For example, renaming a variable will prompt Cursor to auto-update its uses in the next ~5 lines – you can literally refactor by pressing Tab repeatedly ¹⁹. This context-aware completion makes refactoring and repetitive edits feel nearly automated ("I type `Tab` more than anything else," as one dev put it ²⁰).
- **Inline Natural Language Edits (`Cmd/Ctrl+K`):** Cursor lets you invoke the AI on demand to generate or modify code. Pressing `⌘ K` (Mac) / `Ctrl K` (Win) opens a prompt palette *in the editor* ²¹. You can type an instruction like "Implement a function to parse CSV input" or "Optimize this

loop with a list comprehension,” and Cursor will either insert new code or produce a **diff** to apply to existing code ²² ²³. This works both for generation (it can scaffold entire files or modules based on a description) ²⁴ and transformation (select a block of code and ask to refactor or fix it) ²⁵. The AI’s edits come back as colored diffs (red removals, green additions) which you can review and accept in one click ²⁶. Essentially, `Cmd+K` is your gateway to *in-editor ChatGPT*: you tell Cursor what you want, and it “edits” your code accordingly ²⁷ ²⁸. This is huge for **AI-assisted refactoring** – e.g. “extract this logic into a new function” or “convert this class component to a functional component” can be done in seconds.

- **Context-Aware Q&A and Debugging:** Cursor’s inline AI can also answer questions about your code. By selecting code and using `Cmd+K → Quick Question`, you can ask things like “What does this function do?” or “Why is this test failing?” and get an explanation or diagnosis that references the code ²⁹ ³⁰. Unlike a generic ChatGPT, Cursor’s answers are based on *your* actual code context – it “knows your codebase” by design ³¹. You can even highlight an error or stack trace in the terminal and ask Cursor for help; it will suggest fixes. Many devs use this for **debugging** and understanding unfamiliar code. One user noted, “Bugs that used to take me hours to solve were resolved in minutes – Cursor pointed out the issue and even auto-fixed it” ³². The conversational aspect (via the **Chat** sidebar, see below) means you can iterate: “Is there a bug here?” – get answer – “Okay, now fix it.” – get a patch.
- **Chat Mode (AI Assistant Panel):** Besides inline prompts, Cursor provides a full chat interface (opened with `⌘ L`). This is like having ChatGPT within your IDE, with the editor’s awareness. The chat understands which file you’re in and even where your cursor is, so you don’t have to over-explain context ³⁰. You can have high-level discussions (“How should I design my database schema for this app?”) or ask for code (“Write a regex for validating emails”) and get answers with code that you can insert with one click ³³. Importantly, the chat supports **@mentions** to inject additional context: `@file` to attach specific files, `@folder` for directories, `@web` to do a quick web search, or `@docs` to include documentation text ³⁴ ³⁵. This *Retrieval Augmented Generation* approach means the assistant can pull in not only your project files, but also external knowledge. For example, you can ask “What’s the time complexity of this function?” – if it needs more info, you could `@web` to let Cursor search online, or `@docs` to feed it a specific API’s docs for reference ¹² ³⁴. The chat also supports **images** as input: you can drop an image (like a UI mockup or error screenshot) into the conversation, and it will be OCR’d or analyzed so the AI can respond to it ³⁶. This is useful for front-end work (e.g. “Here’s a wireframe PNG, generate HTML/CSS for it.”). Overall, the chat is used for design brainstorming, getting explanations, or multi-turn debugging – essentially *pair programming via conversation*.
- **Composer (Multi-File & Project-Wide Changes):** One of Cursor’s most powerful features is the **Composer**, which enables the AI to handle *large-scale or cross-file tasks*. With Composer, you select a set of files or an entire folder and give a high-level instruction, and Cursor will generate a plan and apply changes across all those files coherently ³⁷ ³⁸. For example, “Migrate our authentication from JWT to OAuth2 across the codebase” or “Add e2e tests to all services in the `./tests` folder.” The agent will analyze the selected scope, perhaps list a **to-do plan**, and then proceed to edit multiple files, even creating new files if needed ³⁷ ³⁹. You can review all diffs and accept or revert them. Composer is essentially an AI *agent mode* operating on your repo: it can coordinate multi-step refactors, renaming symbols project-wide, or introducing a new feature that touches frontend and backend simultaneously. It does require you to specify the scope (it won’t blindly modify unseen parts of your repo without you pointing it there, to avoid chaos) ⁴⁰. Many users leverage Composer for large codebase work – it’s like telling an intern “apply this change consistently everywhere” and it gets done in one go. Recent updates even let the agent “plan ahead with to-do lists” for complex tasks and queue follow-up prompts

automatically ⁴¹ ⁴². In short, **bulk edits and codebase-wide generation** are a first-class feature of Cursor.

- **Terminal Commands in Natural Language:** Cursor also extends to your terminal. You can open an AI-powered terminal in the editor where typing a natural language command (prefixed by `⌘ K`) will let the AI suggest the actual shell command to run ⁴³. For instance, you could type, “Find all files modified in the last 24 hours” and it will translate that to the appropriate `find` command ⁴⁴. This is handy for those who forget shell syntax or need to chain complex commands – the AI essentially serves as your CLI co-pilot. It executes commands in a sandboxed manner (with safety checks). This feature also integrates with the chat/agent – e.g. the AI can decide to use the `run_terminal_cmd` tool behind the scenes to compile your code or run tests as part of debugging ⁴⁵ ⁴⁶.
- **Testing and Documentation Assistance:** Cursor can help generate **unit tests** and docs. You can ask it to create tests for a given module, and it will suggest test cases or even entire test file templates ⁴⁷ ⁴⁸. Because it’s aware of your code, it can identify edge cases or areas with low coverage. Similarly, it can produce documentation: for example, “Generate a README for this project” will have it analyze your codebase and draft a README (users have noted it can figure out what a project does and document it surprisingly well ⁴⁹). These abilities make it useful not just for coding, but for the *surrounding tasks* of software development.

All these capabilities combine to make Cursor an **AI pair programmer** that is deeply aware of context. It’s like coding with ChatGPT that “*knows your project better than you do*” ¹³ – from auto-completing dozens of lines with a Tab, to answering “What does this function I wrote 6 months ago do?” without leaving your editor. Developers report significant productivity boosts; Cursor itself markets as a “2× improvement over Copilot” in overall workflow ⁵⁰. In summary, Cursor’s core strengths lie in **contextual understanding**, multi-file scope, and a rich set of AI-driven coding tools (vs. just single-line autocomplete). It covers use cases from writing new code, refactoring and maintaining large codebases, to debugging and knowledge discovery – all via an intuitive mix of *natural language prompts and traditional editing*.

Real-World Usage Scenarios

Cursor’s capabilities truly shine in practice. Here are a few concrete workflows from developers leveraging Cursor in the wild:

- **Building a Full-Stack App in an Hour:** *Use case:* Rapid greenfield development. A full-stack engineer reported building a complete MERN-stack web app (Next.js frontend, Node/Express backend, MongoDB database) *in about 60 minutes* using Cursor ⁵¹ ⁵². Normally, setting up a project with auth, REST APIs, CRUD operations, state management, etc. takes a week or two – but with Cursor’s help, the developer went from blank slate to a production-ready app in 1 hour. **How:** They used Cursor’s **Composer and Tab completions** extensively. Cursor generated boilerplate files (models, routes, controllers) from high-level prompts, built out UI components based on described requirements, and even handled state management code in React, just from natural language instructions ²⁴. As development progressed, the **contextual awareness** meant Cursor could ensure consistency across files – for example, if a Mongo schema field was added, it would suggest corresponding updates in the API and UI without being explicitly told. The dev also used the chat to quickly **debug** issues; Cursor caught bugs on the fly and suggested fixes in minutes ³². Multi-file refactors that normally require careful coordination were done almost instantly (changing a variable or function name across client & server in seconds) ⁵³. In

the end, the app had features like authentication, responsive UI, and deployment config – all AI-assisted. This scenario shows Cursor acting as a supercharged co-developer: handling rote coding tasks, enforcing consistency, and accelerating the end-to-end flow from idea to working software.

- **Refactoring a Large Monorepo / Legacy Codebase:** *Use case:* Cleaning up and modernizing an enterprise codebase. One engineer at a company with “a lot of legacy code” used Cursor to significantly speed up refactoring work ⁵⁴. **Scenario:** The codebase spanned multiple services (a monorepo with several folders). The developer needed to perform cross-cutting changes (like renaming functions, updating APIs, and adding new e2e tests across services). With Cursor’s **Composer**, they selected the relevant folders and described the high-level change once, instead of manually editing dozens of files ³⁷ ³⁸. Cursor’s agent planned the necessary edits and executed them uniformly, ensuring, for example, that if a function signature changed, all its callers across the repo were updated. The user could review the diffs and accept all in one go. They noted that **Copilot++** (the enhanced autocomplete) was especially helpful for iterative cleanup – as they started adjusting one part of the code, Cursor proactively suggested adjustments in adjacent lines and files, effectively “rippling” the refactor through the code ¹⁹. The developer found this “insanely useful” for renaming variables and functions project-wide without missing any instances ¹⁹. In addition, the **Chat** was used to discuss architecture: they could ask, “What’s a better pattern to decouple these modules?” and get advice with references to their code. Because Cursor could semantically search the whole repository, it would even jump to relevant pieces when answering questions (similar to Sourcegraph’s code search). This scenario highlights how Cursor handles **large codebases**: by embedding the repo for semantic context, it can answer questions like “Where is the auth logic defined?” and navigate you to the right file ⁵⁵. Devs on Cursor’s forum have confirmed you can have architectural conversations with the AI using your codebase as context, then apply the agreed changes via Composer ⁵⁶. In summary, Cursor massively reduces the toil in comprehending and editing big, interconnected code – making large-scale refactors feasible in hours instead of days.

- **Building an AI Agent with LangChain (Multi-Agent Workflow):** *Use case:* Complex project with external integrations. One developer needed to analyze UI/UX patterns across **150+ websites** and built a multi-agent web-scraping tool using Cursor ⁵⁷ ⁵⁸. The project involved Python, LangChain/LangGraph for the agent logic, a Streamlit app for UI, and tools like Firecrawl for web scraping ⁵⁸ ⁵⁹. **Workflow:** The developer created a detailed plan and rules for the project (including which libraries and versions to use) and put that into a `.cursorrules` file before coding ⁶⁰ ⁶¹. Cursor used these rules as guidance (e.g. architectural principles, specific library usage) during generation. Using Composer, they prompted Cursor to scaffold the initial version of the multi-agent system. In about **30 minutes** of AI-assisted coding (plus some iteration), they had a working prototype that could scrape websites and analyze content ⁶². Cursor generated the data ingestion code, agent definitions, and Streamlit UI based on the descriptions. The developer advises others to “*iterate fast – get something running, then refine*” when using Cursor ⁶³. They also specifically chose **Claude 3.5 Sonnet** as the model for this project, finding it “amazingly good” at coding tasks in Python/TypeScript compared to others ⁶⁴ – an example of selecting the right model in Cursor for the job. After getting the basic app running, they used Cursor’s chat to improve parts of the agent logic, ask for optimizations, and even include external info (like documentation links for LangGraph) in context ⁶⁵ ⁶⁶. This real-world case shows Cursor acting as an **AI development partner for AI apps**: it handled boilerplate and repetitive code, respected custom project rules, and let the developer focus on high-level logic. The result was an advanced multi-agent system built much faster than hand-coding would allow, proving that even cutting-edge AI workflows (LangChain agents) can be accelerated with an AI IDE.

- **AI-augmented Testing and Code Review:** *Use case:* Quality engineering with AI assistance. Many devs use Cursor to generate tests and even review code changes. For example, a developer integrating **Playwright** tests with Cursor noted that writing end-to-end tests became easier: they could describe a user flow (“log in, add an item to cart, check out”) and Cursor would generate a Playwright test script covering it ⁶⁷. By selecting the relevant files and using `Cmd+K` → “Generate tests for this module”, they’d get a starting point for unit tests, which could then be refined via chat follow-ups (e.g. “Add edge case for empty input”). Moreover, Cursor’s **“BugBot”** feature (introduced in Cursor 1.0) can do an AI code review on a pull request: it will analyze a diff and comment on potential issues or improvements ⁶⁸. In team settings, Cursor’s **Background Agent** can run on CI or via Slack – for instance, you can mention @Cursor in a Slack channel with a task, and it will read the thread and open a PR with the changes in GitHub ⁶⁹ ⁷⁰. One team pipelined Cursor into their code review process: when a PR is opened, Cursor’s agent (nicknamed “BugBot”) automatically adds comments highlighting bugs or style issues, similar to a human reviewer ⁶⁸. This scenario demonstrates Cursor’s role beyond coding: as a **AI quality assistant**, catching bugs, suggesting fixes, and ensuring test coverage. It’s especially valuable in large projects where reviewing code manually is time-consuming – the AI can offload some of that work.

These scenarios illustrate how versatile Cursor AI is across different domains. Whether you’re spinning up a new project, modernizing a massive codebase, building AI-driven applications, or tightening your testing loop, Cursor adapts to the workflow. Crucially, the common thread is **Cursor’s understanding of context** – knowing the code structure and intent – which allows it to contribute meaningfully (not just boilerplate) in real development scenarios. As one user put it, “It’s like having an insanely smart co-pilot who never sleeps, knows your entire project, and learns as you go” ⁷¹.

Hands-On Tutorials & Walkthroughs

To get familiar with Cursor’s features, it’s helpful to follow along with some hands-on tutorials. Below are a couple of advanced use-case walkthroughs (with references) that demonstrate Cursor in action step-by-step:

- **Tutorial: AI-Powered Refactor of a Legacy Project** – *Official Cursor Demo*. In the YouTube video “AI tools for software engineers, but without the hype” (2024) ⁶⁷, a Cursor team member live-demonstrates using Cursor to refactor a legacy codebase. The tutorial shows how to: 1) Identify outdated patterns in the code, 2) Use **Chat (Ask mode)** to discuss a refactoring plan with Cursor, 3) Apply the plan via **Composer** across multiple files, and 4) Use **Quick Questions** to verify the behavior after changes. For example, they walk through converting an old callback-based JavaScript code to modern async/await. The presenter opens the chat sidebar and types “How can I improve this callback hell?”, and Cursor responds with a suggestion to use promises/async functions, even pointing out the exact lines to change. Then, by selecting the folder and prompting Composer with “Refactor callbacks to async/await”, Cursor automatically edits every function, updating the syntax. The video illustrates best practices like adding the relevant files to context (using `@ files`) so the AI has full awareness ⁷². It also highlights using the **“Reference Open Editors”** trick (via the `/` menu in chat) to quickly pull in all open files as context ⁷³. This step-by-step walkthrough is great for seeing how an experienced user drives Cursor: they alternate between conversational commands and direct accept of suggestions. By the end, a tangled code section is transformed into clean, modern code – all within about 15 minutes. *Resources:* The recorded demo (YouTube) and the corresponding blog post on the Cursor site provide a detailed script of the process. It’s an excellent starting point to learn how to systematically approach large refactors with Cursor’s tooling.

- **Tutorial: Building a LangChain Chatbot with Cursor** – *Community Walkthrough*. A YouTube tutorial by *Automation* (2025) walks beginners through creating an AI chatbot using Next.js, OpenAI GPT-4, and LangChain – with Cursor as the coding partner ⁷⁴. The video begins with setting up the project in Cursor (showing how you can **create a new project** and have Cursor generate boilerplate). It then demonstrates using **Cmd+K prompts** to scaffold key parts: (1) Creating an OpenAI API wrapper in Node – the user types “Create a module to call GPT-4 API with given prompt and return the result,” and Cursor generates the Node.js code with axios fetch, error handling, etc., which the user accepts ²² ⁷⁵. (2) Building a simple LangChain agent – the instructor writes a docstring describing the agent’s logic (using conversational memory, maybe some tools), and asks Cursor in chat “Implement a LangChain agent as per the above description.” Cursor then produces the Python (or JS) agent code. The tutorial highlights how to use `@doc` **mentions**: the presenter drags in a snippet of LangChain documentation (or a function signature) via `@Docs` in the chat so that Cursor knows about specific classes to use ⁷⁶. This ensures the generated code uses correct LangChain APIs (which might be outside the model’s training data). (3) Frontend integration – the video shows using **Tab autocompletion** to flesh out a React component for the chatbot UI. For instance, after creating a basic `<ChatBox>` component, as the dev starts writing a message send handler, Cursor’s Tab suggestion pops up with the complete implementation (sending user input to the backend, handling streaming responses, etc.) which they accept ⁷⁷. During the build, a few mistakes occur (intentional for demonstration): the agent returns data in an unexpected format. The tutor uses **Quick Question** on the problematic code, asking “Why is the response undefined here?” Cursor pinpoints a slight mismatch in how the agent returns output. They then use **inline edit (Cmd+K)** with an instruction “Fix the response handling logic” – Cursor adjusts the code accordingly ²⁵. By the end of the tutorial, they have a functioning chatbot web app. This walkthrough is instructive for new Cursor users because it touches on all major features (inline generation, chat, autocomplete, context injection) in the context of building a real application. *Resources*: The YouTube description includes a link to the finished code on GitHub, as well as timestamps for each Cursor feature demonstration. There’s also a blog summary on Dev.to by the same author, titled “Build Anything with GPT-4.1 and Cursor (Beginner’s Guide)”, which provides a written version of the steps.

- **Hands-On Guide: Mastering AI Code Review with Cursor** – *Blog Tutorial*. In a Codoid blog post (2025) ⁷⁸, a QA engineer details how to integrate Cursor into a **code review and testing workflow**. It shows a step-by-step example of using Cursor to review a pull request: first, loading the diff into Cursor’s chat (using the `@Commit` mention which fetches the diff of the working state) ⁷⁹, then asking Cursor questions like “Do you see any potential bugs in these changes?” Cursor responds with an analysis, pointing out a possible null pointer issue and a missed unit test. Next, the guide demonstrates generating a unit test for the new code: highlighting the new function and prompting “Write a unit test for this.” Cursor produces a plausible test which the engineer tweaks and runs. The blog emphasizes tips such as “Always verify the AI’s suggestions by running tests – Cursor can hallucinate subtle things like variable names”, highlighting that the human remains in the loop. Finally, it covers using Cursor’s **Background Agent** in CI: they show how to configure the Cursor CLI (or API) to run an agent that comments on PRs automatically (similar to GitHub’s code review bot). The tutorial ends with a side-by-side comparison of a human review vs. Cursor’s review, showing that Cursor caught several issues the human reviewer also noted, plus one they missed. This guide is a practical introduction for teams on adopting AI in their QA process, and it’s rich with screenshots of Cursor’s interface (diff view, chat window with the PR context, etc.). *Resource*: The full article is available on Codoid’s site, complete with code snippets of the Cursor configuration and links to Cursor’s official docs on the **CI integration**.

By following these tutorials, new users can quickly get up to speed on using Cursor for different scenarios. They illustrate not only *how* to invoke Cursor's features, but also the thought process of working alongside the AI (when to trust suggestions, when to ask follow-up questions, how to iteratively refine prompts). For more, check out Cursor's official **Guides** section ⁸⁰, which includes "Quickstart" and scenario-based guides (e.g. "*Using Cursor for Frontend Development*", "*Automating Codebase Cleanup*"). There are also numerous YouTube videos (search "*Cursor AI tutorial*" or "*Cursor AI demo*") – just note that Cursor evolves quickly, so make sure the content is from late 2024 or 2025 to reflect the latest features.

Hidden Features & Pro Tips

Beyond the obvious features, experienced Cursor users have discovered a number of hidden gems and best practices that significantly enhance productivity. Here are some power-user tips gathered from Cursor's Discord community, Twitter/X discussions, GitHub issues, and YouTube dev content:

- **Leverage `.cursorrules` for Persistent Guidance:** Cursor allows you to create a file named `.cursorrules` in your project, containing special instructions or preferences that are *always* injected into the AI's context ⁸¹. Power users utilize this to enforce project-specific conventions or remind the AI of important details. For example, in a Next.js project you might add a rule: "*Always include 'use client' at the top of files using React hooks*" ⁸². Or in a Flutter project, a rule could require that `flutter analyze` shows a clean output (guiding Cursor to produce analysis-friendly code). These rules function like a team style guide for the AI – they'll persist across all prompts. Many community-shared `.cursorrules` templates exist; developers often grab one from the **Awesome Cursor Rules** repository to cover best practices for their stack (e.g. a template for "Clean Architecture in NestJS") ⁸³ ⁸⁴. By seeding Cursor with such rules, you get more consistent and accurate suggestions that align with your project standards.
- **Customize the "Rules for AI" (System Prompt):** In Cursor's settings, there's a "Rules for AI" section where you can add your personal prompt instructions that will prefix every conversation (effectively a custom system prompt just for you) ⁸⁵. Power users often put a short list of preferences here – tone, brevity, format. A *leaked example* from a Cursor engineer was shared on Twitter: e.g. "*Be terse and casual, treat the user as an expert, never repeat their code unnecessarily, provide answers first then explanations, cite sources at the end*" ⁸⁶. By copying this into your settings, you can significantly alter Cursor's default behavior to suit your style (for instance, forcing it to avoid overly verbose answers or boilerplate politeness). This is essentially like telling the AI, "Here's how I like my answers." You can combine this with `.cursorrules` (the difference: `.cursorrules` are project-wide and shared via git, whereas the settings "Rules for AI" are your personal preferences) ⁸⁷. Tuning these rules can yield a snappier, more tailored AI assistant – many users report that adding a line like "*Assume I know the basics – no need for high-level explanations*" improved the relevance of Cursor's responses in their workflow.
- **Fast Context with `/ Reference Open Editors`:** When you're about to ask Cursor something complex that involves multiple files, avoid manually `@-mentioning` each file. Instead, a pro tip is to **open all the relevant files in tabs**, then in the chat box type `/` and select **"Reference Open Editors"** ⁷³. Cursor will automatically attach the content of all open files into the prompt (up to context limit). This is a huge time-saver for adding context. For example, if you're debugging an issue that spans a front-end file, a back-end API, and a database schema, open those three, hit `/ Reference Open Editors`, and then ask your question. The AI will have those files' content available implicitly. Users note that this works more reliably than the older method of manually typing `@file` repeatedly, and it ensures the AI doesn't "lose track" of

which parts of the codebase are in play. One caveat: sometimes you need to clear the prompt box first for `/` to work (tip: use Ctrl+A then Ctrl+X to cut any text, hit `/`, then paste back your question) ⁸⁸. This little workflow tweak can **sharpen the AI's focus** and reduce hallucinations by limiting context to what's open and relevant.

- **Use Notepads for Reusable Prompts & Context:** Cursor has a feature called **Notepads** – basically free-form text notes within the IDE that the AI can access ⁸⁹ ⁹⁰. Savvy users exploit notepads to prepare complex prompts or give high-level context that they can reuse. For instance, you might write a Notepad describing your app's overall architecture or a specific feature design (in plain English, or even including checklists of tasks). You can then `@mention` that notepad in any prompt to inject that context. This is incredibly useful for multi-step workflows: e.g. a "Code Review Checklist" notepad that lists things to verify; when asking Cursor to review code, you include `@notepad CodeReviewChecklist` so it knows what to look for. Some use notepads as a way to **stage a large prompt** beyond the normal token limit – they chunk the prompt into a notepad, and reference it instead of sending it all directly. Another use: storing frequently used prompt templates (like a custom prompt to generate React components with a certain style) and quickly pulling it in when needed. In summary, Notepads act as your personal knowledge base that Cursor can draw from, allowing a form of **prompt reusability** and extended context on demand.

- **Tap into External Knowledge with `@` Mentions:** Many devs aren't aware how powerful Cursor's `@` integration is. In the chat or any prompt, typing `@` opens a menu to attach **files, folders, documentation, or web search results** ³⁴. Two particularly "hidden" features here: `@Docs` lets you paste or reference any documentation text (even a URL to a local HTML/MD file or an online doc) – Cursor will include it so the AI can answer using that info ⁷⁶. This is a lifesaver for working with new libraries or private frameworks: feed the library's README or API docs into Cursor before asking implementation questions. The other is `@Web`: Cursor will perform a live web search and scrape content to help answer your query ⁹¹. It's like having Perplexity or Bing integrated – you might ask "What's the latest stable version of Python?" with `@Web` and Cursor will fetch the answer from the internet ⁹¹. This is useful for questions about known algorithms, error messages (it can pull Stack Overflow threads), or latest best practices that the base model might not know. Do note that sharing private code via `@Web` will send snippets to a search API – so use it mainly for general queries or explicitly public info. Nonetheless, skillful use of these `@` tools makes Cursor an **all-in-one research and coding assistant**, saving you from context-switching to a browser for most questions.

- **Diff View & `@Commit` for Uncommitted Changes:** When you've made some changes and want Cursor's help reviewing or adjusting them *before* you commit, use the `@Commit (Diff of Working State)` feature ⁷⁹. This hidden gem generates a diff of all unstaged changes in your workspace and feeds it to the AI as context. For example, after doing a manual refactor, you can open chat and type `@Commit Diff of Working State` followed by "Do you spot any issues?" – the AI will effectively perform a review of your local changes ⁷⁹. It might catch a mistake or suggest an improvement. You can also ask it to write commit messages or summarize your changes; because it sees the diff, its summary will be accurate to what you actually changed. Another clever use: if you have a bunch of changes and want to make sure you didn't forget updating something, ask Cursor via diff context. This feature essentially brings version-control awareness to the AI. (Note: this works only within Cursor's editor, not via GitHub PR – for PRs you'd use Cursor's Slack/GitHub integration as described earlier.) Advanced tip: you can even have Cursor *generate* a diff between two branches or commits by specifying them, though this is

more of an experimental use. Overall, `@Commit` diff context is fantastic for **AI-assisted code review and validation of local work**.

- **Experiment in “Playground” (Scratch Pad Files):** If you want to try prompt ideas or have the AI generate code without messing with your actual files, open a new unsaved file (or use a `.cursor.md` scratchpad). Cursor often works even in an empty file context – it won’t have project knowledge but it’s useful for quick experiments. For instance, some devs use a Markdown file to converse with Cursor in a free-form way, then later apply the learned outcome to real code. This is similar to ChatGPT usage but within Cursor. Additionally, Cursor has a **hidden YOLO mode** (mentioned in docs) for terse replies – this can be toggled in certain dev builds or via a special command if you just want quick answers without any explanations ⁹² ⁹³. It’s not widely advertised, but it’s a fun trick when you’re confident and just need the raw output (e.g. generating a chunk of code quickly).
- **Take Advantage of Background & Slack Agents:** A pro-level feature is Cursor’s ability to run in the background or via Slack commands. For example, you can set up a **Background Agent** on a repository that continuously indexes changes and can be invoked to handle tasks asynchronously ⁹⁴ ⁹⁵. In Slack, mentioning **@Cursor** with a request (like “refactor the `payment-service` to use caching”) will trigger Cursor’s agent to perform that task and reply with a link to the PR it created ⁶⁹ ⁷⁰. This effectively extends Cursor’s reach beyond the editor – you can delegate coding tasks in a team chat, and let the AI work on them in the cloud. It’s like having an autonomous coding bot. Power users in big teams integrate this with workflows: e.g. whenever a bug ticket is posted in Slack, an engineer might use @Cursor to generate an initial fix PR, which they then review and adjust. Setting this up requires connecting Cursor to your Slack and GitHub (via the Dashboard → Integrations) ⁹⁶, but once done, it can greatly speed up team collaboration (e.g. non-dev team members could even ask Cursor for a quick fix in Slack, and an engineer just approves/merges if it looks good). This is cutting-edge and one should monitor the AI’s changes carefully, but it’s a **power move for AI-assisted DevOps**.
- **Monitor and Resync the Code Index:** Cursor indexes your code for semantic search. When you do large operations (like switching git branches, pulling lots of new code, or mass renames), it’s wise to **resync the index** to keep the AI up-to-date ⁹⁷. There’s a button in settings for “Resync codebase index” – clicking it forces Cursor to re-embed and register all files. Pro users do this especially after generating code with Cursor itself, or after big merges, to ensure the AI isn’t working off stale data. Additionally, keep an eye on the **Changelog** ⁹⁷ – Cursor updates every couple of weeks with new features or model improvements (e.g. faster Tab completion as of v1.2 ⁹⁸, memory improvements, etc.). By staying updated and exploring the Settings panel, you might discover new experimental features (like **“Memories”**, which is a way Cursor can persist high-level notes about your project between sessions ⁹⁹). In short, treat Cursor as a continuously evolving tool – revisit settings and changelogs regularly, and you’ll often find new toggles or abilities that can be enabled for a better experience.

By incorporating these tips, developers have reported dramatically smoother workflows with Cursor. Little things – like preloading context, crafting better system rules, or using the diff review – add up to make the AI more of a help than a hindrance. The community around Cursor (on the official forum and Discord) actively shares such tips, so it’s worth checking those out too. As one redditor succinctly put it: *“Cursor is awesome out of the box, but if you take the time to tune it (like grabbing an appropriate `.cursorrules` and setting up your shortcuts), it becomes a whole new level of powerful”* ⁸⁴ ¹⁰⁰.

Toolchain Integrations & Extensions

Cursor AI plays well with other tools in the developer ecosystem, and many power users integrate it into a larger toolchain. Here's how Cursor can complement or integrate with some popular dev tools and workflows:

- **Coexisting with GitHub Copilot:** You might wonder if Cursor and Copilot can be used together. Interestingly, Cursor's **Copilot++** feature actually builds on Copilot. Copilot++ is described as a "layer over GitHub Copilot" that extends its capabilities ¹⁹. In practice, if you have GitHub Copilot enabled, Cursor will use Copilot's suggestions but enhance them by considering a wider window of code around your cursor (previous and next ~5 lines) and allowing inline modifications ¹⁹. This gives more contextual and multi-line completions than vanilla Copilot. Some users start using Cursor by importing all their VS Code extensions – including Copilot – and find the synergy helpful (Copilot drives raw suggestions, Cursor injects context and multi-file knowledge). That said, many Pro users eventually rely mostly on Cursor's native suggestions (since Cursor's own model access includes GPT-4, etc.). You can also quickly **toggle Copilot on/off** within Cursor – one user mentioned setting a hotkey to disable Copilot++ when its constant suggestions get distracting ¹⁰¹. In summary, Cursor is not mutually exclusive with Copilot; it can augment it. But in practice, Cursor's deeper integration often replaces the need for Copilot in daily use ¹⁰². If you do keep both, consider Copilot for ultra-quick single-line completions and let Cursor handle the heavy lifting for refactors, Q&A, and multi-file ops.
- **Using GPT-4 (or Others) via API Keys:** If you're on Cursor's free tier (which might not include GPT-4 access by default) or you have a special model access (like OpenAI GPT-4-32k, or a self-hosted LLM endpoint), you can configure Cursor to use your own API keys ¹⁰³. In **Settings → Models** you can enter OpenAI and Anthropic API keys ¹⁰⁴ ¹⁰⁵. This allows Cursor to use those models for Chat/Composer when you select them. For example, if you have GPT-4-32k via API, you could set that as your model in Cursor to get a larger context window for huge files. Some users plug in OpenAI's API to avoid the Pro subscription, though note that heavy usage can rack up API costs (one user calculated that using the GPT-4 API for Cursor ended up costing more than the \$20/mo subscription) ¹⁰⁶. Nonetheless, this BYO-model approach is great for experimenting with different model providers. Cursor's model selector UI will list options like "GPT-3.5," "GPT-4," "Claude 2," etc., including any keys you provided ¹⁰⁷ ¹⁰⁸. You can hot-swap models depending on the task (e.g. use Claude for its larger context on reading many files, switch to GPT-4 for code generation finesse). The integration is seamless – from your perspective you still just ask questions or hit Tab, and Cursor routes to the chosen model. This flexibility ensures that Cursor can remain the central IDE, even as new models come out or if you have proprietary models you want to experiment with.
- **Research and Knowledge Integration (Perplexity, etc.):** While Cursor doesn't have a direct integration with **Perplexity AI**, it essentially offers similar functionality through the `@web` feature and its own search index. If you prefer using an external research agent like Perplexity (or ChatGPT) for broader questions, you can certainly copy findings into Cursor's chat to incorporate them. However, many users find that staying within Cursor is more efficient: e.g. using `@web` to fetch documentation or examples as described. One could also imagine a workflow where Perplexity is used in a browser to gather a lot of contextual info, which is then saved into a Cursor Notepad or `.md` file, and that file is referenced in Cursor for context. In fact, for very large context needs, some have used LangChain outside Cursor to compile info, then fed the result into Cursor's prompt for code generation. This is an advanced technique and mostly unnecessary now that Cursor itself can do web searches. Think of Cursor as having a mini

search engine at its disposal. If you need a more curated answer from something like Perplexity (which might synthesize across many sources), you can always take that answer and give it to Cursor asking, “adapt this solution to my codebase.” In sum, direct integration is not provided, but through creative use of `@` and notepads, Cursor can incorporate external research fairly easily.

- **LangChain and Agent Workflows:** Rather than integrating with LangChain (which is a Python library), the more relevant angle is using Cursor *to build* LangChain or other agent-based systems. We saw in the scenario above how Cursor expedited writing a LangChain + Streamlit app ⁵⁸ ⁶². If you’re developing an AI application (like a chatbot or automation agent), Cursor’s ability to manage complex, multi-file logic and even test it is invaluable. You can code the chain’s components (prompts, tools, memory classes) with Cursor’s help – for example, writing prompt templates in natural language and asking Cursor to convert them into Python strings with proper formatting. Cursor also helps in debugging agent logic: you can paste agent trace logs into chat and ask “why did this agent take a wrong step?” and it will analyze with you. For *integrating* Cursor into a running LangChain pipeline, there isn’t a built-in API for that. But some have experimented with treating Cursor as a sort of “IDE agent” in a larger automated workflow. For instance, you could in theory have a LangChain agent that, upon needing to write code, calls the Cursor API (Cursor has a closed API for its own UI, not publicly documented) or uses the CLI to ask Cursor to make changes. This is quite meta and not mainstream. A simpler integration: if you use VS Code Live Share or code pair programming tools, know that Cursor doesn’t yet support real-time collaboration (since it’s its own editor). One compromise is to run Cursor on a cloud dev environment (like Codespaces or a VM) that the team can access – not common, but some have tried to get a “cloud Cursor” so multiple devs or an external agent could interact with it. In practice, the main integration point with LangChain is that **Cursor helps you develop LangChain apps faster**, and any agent-based workflow can be prototyped in Cursor. Once your app is running, Cursor steps out of the picture (it’s not used in production of course, just in development). The LangChain blog even cited Cursor as “the most talked-about agent tool” among developers due to how quickly it lets you experiment ¹⁰⁹.

- **Remote Development & Containers:** Since Cursor is effectively a VS Code fork, it supports similar setups like VS Code Remote SSH or containers. In the 1.2 update, the team improved “VSCode remote extension connection stability” ¹¹⁰ and fixed issues for users on Remote SSH ¹¹¹. That means you can use Cursor on a local machine while editing code that lives in a remote VM or Docker container, akin to VS Code’s remote mode. If you’re coding inside a devcontainer, one approach is to run Cursor itself inside that container (there’s a Linux build and even a headless mode in beta) – though running the full GUI in a container might require a remote desktop or X11 forwarding. The simpler method: open Cursor on your host and connect via SSH to the container’s filesystem (some advanced config may be needed, since by default Cursor doesn’t have the exact VS Code Remote UI, but the changelog suggests it’s possible now ¹¹²). Another angle: many teams have CI/CD pipelines and want to include AI-assisted changes or validations there. While Cursor isn’t a CLI tool, you can script it using the **Cursor CLI headless agent** (an experimental feature). Essentially, you can run `cursor-cli` with a prompt and it will output the AI’s result or create a commit. This is not widely documented, but the enterprise version of Cursor is leaning into such integrations (for example, background agents triggered on new pull requests, as discussed). For now, most use of Cursor in CI is through the Slack/PR review features rather than automated code generation in pipeline (which would be risky without human oversight).

In general, Cursor’s philosophy is to be **your central development hub** – so while it may not “integrate” with Copilot, CodeWhisperer, etc. in a plugin sense, it aims to *replace the need for juggling multiple AI*

tools. It brings together code understanding (like Sourcegraph), chat Q&A (like Stack Overflow/ChatGPT), and autocompletion (like Copilot) in one place. That said, it's flexible: you can still use external tools alongside it, and the community often mixes and matches (e.g. using ChatGPT for brainstorming then moving to Cursor for implementation). Think of Cursor as the IDE and these other tools as supplements you can feed into it when needed.

Comparison with Competitors (2025)

AI coding assistants have proliferated, and each has its strengths. Here's a comparison of Cursor AI with some major competitors – GitHub Copilot, Amazon CodeWhisperer, Sourcegraph Cody, and Tabnine – focusing on how they stack up in various use cases:

GitHub Copilot (by OpenAI & Microsoft): Copilot is the pioneer in this space, offering AI code completion primarily via IDE plugins.

- *Integration & Ease of Use:* Copilot seamlessly plugs into VS Code, JetBrains, Vim, etc., making it easy to adopt in any workflow ¹¹³ ¹¹⁴. It's lightweight in the UI – suggestions just appear as you type. Cursor, by contrast, is a whole separate IDE (VSCode-based) ¹¹⁵. This means Copilot can be used in more environments (including cloud IDEs, multiple editors) and is very unobtrusive, whereas Cursor requires you to use its editor for full functionality. If you love your current IDE setup, Copilot slips in with minimal friction ¹¹³.
- *Code Completion and Generation:* Copilot excels at on-the-fly **code generation for the current file**. It's trained on massive GitHub data (Codex/GPT-4), and can produce correct boilerplate or even complex algorithms from just a comment prompt ¹¹⁶. It particularly shines in suggesting the next line or block as you're typing (it's tuned for that "auto-complete" feeling). Cursor's **Tab** auto-complete is arguably more advanced in context (looking at multiple lines, recent edits, etc.), and users often find it *more predictive* of their intent than Copilot ¹⁷. Additionally, Cursor can suggest multi-line or even multi-file changes without explicit prompting ¹⁸ ¹⁹, whereas Copilot (as of early 2025) tends to focus on one file at a time (though Copilot's newer "Fill" and "Edit" features allow multi-file awareness to some extent ¹¹⁷). For **prompted generation** (like "write a function that does X"), both are good, but Cursor gives you that result in an *editable diff or applicable suggestion*, which can be safer and easier to merge ²³ ²⁶. Copilot usually just inline completes without explicit diffs, unless you use Copilot Chat or Agents.
- *Context & Codebase Understanding:* Originally, Copilot had a limited context window (~4k tokens), causing it to ignore wider project context ¹¹⁸. By 2025, Copilot improved with 32k and 100k context support on Copilot X (GitHub's "Copilot for Business" offers 100k context) – meaning it can consider larger files or multiple files if invoked via its **Cody-like** features (Copilot Chat and the experimental Copilot "agent") ¹¹⁷. However, Cursor was built with **codebase indexing from the start** ¹⁴. It creates embeddings of the entire repo and can retrieve relevant code for any query, giving it a strong edge in understanding your whole project structure out-of-the-box ¹². Sourcegraph's CEO noted on HN: "*Copilot is mostly autocomplete. Cursor is far superior at indexing files... knowing which part of the code does what*" ¹¹⁹. Copilot's agent mode now attempts repository-wide reasoning (it can open files itself when instructed) ¹²⁰ ¹¹⁷, so it's catching up. Still, in everyday use, **Cursor's chat feels more like talking to a developer who has read your repo**, whereas Copilot Chat sometimes feels like a Q&A on a single file or a snippet (unless you manually paste context). For finding where a function is defined or answering questions about project-specific code, Cursor (and Cody) are ahead of Copilot.

- *Refactoring & Multi-File Edits:* Cursor and Cody both have dedicated mechanisms for multi-file refactoring (Cursor's Composer, Cody's batch changes) whereas Copilot's contribution here is relatively new. GitHub announced **Copilot Labs/Agents** with the ability to make changes across multiple files (like "refactor this feature" commands) ¹²¹. In practice, Copilot's multi-file refactors can be hit-or-miss and are not as interactive – it might create a pull request with changes after a delay. Cursor's approach is interactive and immediate: you select scope and it executes on the spot ³⁷. For example, renaming a function across 10 files: Cursor can do it in one go and show diffs; with Copilot you might rely on IDE find/replace or wait for Copilot agent to propose something. So for **large-scale code modifications**, Cursor is more mature.
- *Pair Programming Experience:* Copilot is more of a silent assistant – it injects suggestions as you code. Cursor is a more *engaged partner* – sometimes proactively opening a chat tab with a message like "I noticed inconsistent markup, want me to fix it?" (as noted by users ¹²² ¹²³). It can feel eerie but helpful. Copilot won't do that; it only responds when you prompt or pause typing. Depending on preference, some find Cursor's involvement great, others find it a bit intrusive (hence the earlier mention of toggling suggestions off at times ¹⁰¹). Both can be seen as pair programmers, but Cursor can take more initiative, whereas Copilot is more reactive.
- *Performance & Cost:* Copilot (Individual) is \$10/month (or free for students/open source developers), and offers basically unlimited usage (with some rate limits) ¹²⁴. Cursor's Pro is \$20/month ¹²⁵. Copilot gives more value per dollar in that sense (includes GPT-4 access now at that price). That said, Cursor's free tier is quite generous too – it includes a number of GPT-3.5 and local model completions and 50 "premium" (GPT-4/Claude) requests per month ¹²⁶. For heavy users, \$20 gets unlimited GPT-4 via Cursor which is actually a bargain (OpenAI's own ChatGPT Plus at \$20 doesn't let unlimited GPT-4 coding *in your IDE*). Some users have actually canceled ChatGPT Plus in favor of Cursor Pro ¹²⁷ ¹²⁸, since Cursor Pro effectively covers GPT-4 needs plus the IDE integration. In terms of speed, both Cursor and Copilot are pretty snappy for autocomplete. Cursor's Tab completion got a ~100ms speed boost in a recent version ⁹⁸, and many report it feels *faster* than Copilot's suggestions now. Initially Copilot had the edge on latency due to being built into the editor, but Cursor has optimized a lot. One advantage of Copilot: it runs fully client-side (calls the API from your IDE), whereas Cursor's app coordinates with its own backend which then calls models – this extra hop is usually negligible but could matter if their servers are under load. Overall, both are performant for most users.

Amazon CodeWhisperer: Amazon's CodeWhisperer is another AI code assistant, free for personal use, focused on AWS and security.

- *Strengths:* CodeWhisperer is **very AWS-aware**. It has been trained on AWS APIs and best practices, so if you're writing infrastructure-as-code (CloudFormation, CDK) or using AWS SDKs, it often provides spot-on suggestions that adhere to AWS's recommendations ¹²⁹ ¹³⁰. It also has a built-in **security scanner** – it will detect secrets, credentials, or common vulnerabilities in your code and warn you (Copilot added something similar for enterprises, but CodeWhisperer does it for all) ¹³¹. A big plus: it's free for individual developers (you just need an AWS account). In AWS-centric projects, CodeWhisperer can sometimes outperform Copilot in relevance ¹³².
- *Weaknesses:* Outside of AWS contexts, CodeWhisperer is less impressive. It supports multiple languages (Python, Java, JavaScript, etc.), but its model felt like somewhere between GPT-3 and GPT-3.5 in capability in independent tests. The suggestions can be more basic or fail in niche frameworks where Copilot or Cursor excel. It also lacks a rich chat or multi-file experience – it's mostly inline autocomplete and a basic reference tracker. So compared to Cursor, it cannot do

things like “search my codebase” or “read these 5 files and answer a question.” It’s more akin to Copilot’s core autocomplete only.

- *Use Cases:* If your workflow is heavily AWS (Lambda functions, DynamoDB queries, etc.), you might even use CodeWhisperer *alongside* Cursor. For example, in Cursor’s prompt you could call `@web` to search AWS docs, or simply rely on Cursor’s models (which do know a lot of AWS as well). Cursor doesn’t natively integrate with CodeWhisperer (no plugin for that), so you’d choose one environment at a time. For AWS devs concerned about cloud leakage, CodeWhisperer might be attractive because it offers a local option and privacy controls (though Cursor’s privacy mode is similar ¹³³). In sum, CodeWhisperer is strong in its niche but doesn’t provide the full AI IDE experience Cursor does.

Sourcegraph Cody: Cody is an AI assistant by Sourcegraph, geared towards code search and large context understanding. It’s available as a VS Code plugin or via Sourcegraph’s web UI.

- *Strengths: Deep codebase indexing* – Sourcegraph’s bread and butter is code search across gigantic repositories, and Cody leverages that. It can handle repositories with millions of lines by searching and retrieving relevant snippets to pass into the LLM. Similar to Cursor, it can answer questions like “Where in our code is the function to upload a file?” by searching the codebase ¹¹⁹ ¹³⁴. Cody also integrates with Sourcegraph’s precise code intel (like an LSP), so it may have more semantic awareness in some cases. Cody’s chat can generate and edit code, and with Sourcegraph’s Batch Changes, it can apply multi-repo changes (though usually it suggests patches that you apply).
- *Differences from Cursor:* Cody runs as an extension or through Sourcegraph’s cloud, not a full IDE. In VS Code, Cody will sit in the sidebar, somewhat like Cursor’s chat, and you can ask it questions. It’s quite powerful for Q&A and small generation tasks, but if you want something like “refactor these files”, Cody typically gives you diffs which you then apply (semi-manually or via Batch Changes). Cursor, being an IDE, can just do it live. Another difference: **Cody supports self-hosting** (Sourcegraph enterprise) and can be used on code that never leaves your network (with open-source models or on-prem GPT) – a big draw for companies with strict compliance. Cursor as a product is not open-source and requires connecting to their cloud (though they are SOC2 certified and offer on-prem options for enterprise). For an individual dev, Cursor is easier to start with (Cody requires setting up Sourcegraph or using their cloud with limitations).
- *Use Cases:* If you need to handle extremely large codebases or multiple repositories at once, Cody and Cursor are the top contenders. One might find Cody slightly better at direct code search answers (since it uses Sourcegraph’s mature search engine) and Cursor better at actual code modifications and interactive coding. Some users even use Cody for searching code and then copy results into Cursor to work on them. Sourcegraph’s own comparison page notes: “Cursor can include local code context by manually selecting files, while Cody automatically uses the code graph” ¹³⁵. Also, Cody’s chat UI in the Sourcegraph web app can handle really long pastes, so some use it to ask questions about very large files, where Cursor might hit context limits (though both now support 100k+ with Claude).
- *Pros/Cons Summary:* **Cody Pros:** Unmatched for large-scale code understanding, multi-repo support, and enterprise integration. **Cons:** Less integrated editing, fewer proactive suggestions, and requires Sourcegraph indexing (setup overhead). **Cursor Pros:** Very interactive editing, proactive autocomplete and refactoring, simple setup for single projects. **Cons:** Limited to one repo at a time, and not open source. Many devs in 2025 use *both*: e.g. use Cody within

Sourcegraph for exploring unfamiliar code, and use Cursor when actively developing on that code.

Tabnine: Tabnine is a different breed – it started as a locally-running ML autocompletion engine and now offers both local and cloud AI options.

- **Strengths: Privacy and offline support.** Tabnine can run on your machine without sending code to a cloud (using a less powerful model) ¹³⁶ ¹³⁷ . For companies with sensitive code that cannot be sent to OpenAI/third-party servers, Tabnine is a go-to. It's also IDE-agnostic (plugins for many editors). Tabnine's suggestions are fast and it allows configuring custom models trained on your own code (Tabnine Enterprise can train on your repo so it learns your patterns). It also supports many languages and is lightweight.
- **Weaknesses:** Purely in terms of suggestion quality, Tabnine's base model historically was closer to GPT-2/GPT-3 level – decent for boilerplate and common patterns but not nearly as “clever” as GPT-4 or even GPT-3.5-turbo. It doesn't do chat or instructions; it's only for inline code completion. No codebase-wide reasoning or multi-file edits – it's essentially a smarter autocomplete. Some developers use Tabnine locally alongside Cursor (since Cursor currently doesn't support offline mode, one might turn to Tabnine if no internet is allowed at all). In such a scenario, Tabnine can fill in the small stuff, but you lose out on the rich capabilities Cursor provides online.
- **Use Cases: Security-critical or air-gapped development** is Tabnine's niche. Also, for quick completions in languages where you don't need fancy AI logic (maybe boilerplate-heavy languages), Tabnine offers a speed boost without latency of network calls. But for anything requiring understanding context or complex problem solving, Tabnine falls short of Cursor. It's worth noting Tabnine's devs are working on more advanced “codebase-aware” features, but as of 2025 they haven't reached the level of interacting with multiple files like Cursor/Cody.

Overall – Pros/Cons by Use Case:

- **Code Generation (from natural language specs):** All tools can generate code from comments or prompts. Copilot/Cursor are top-tier here (using GPT-4). Cursor might have an edge when the generation requires tying together multiple files (because it will auto-create and import as needed) ¹³⁸ ¹³⁹ . Copilot is excellent for generating a single function or snippet within a file. CodeWhisperer is decent but shines mostly for AWS-related code. Tabnine can generate small idiomatic snippets but not complex logic reliably. **Winner:** For pure generative capability, **Copilot and Cursor** (leveraging GPT-4-level intelligence) are best. Cursor's integration can make the process smoother (no copy-paste from ChatGPT needed) ¹⁴⁰ ¹⁴¹ .
- **Code Comprehension & Q&A:** This is about reading code and explaining it or answering questions. **Cursor and Cody** lead because they index the whole repo and allow semantic search ¹² ¹⁴² . Cursor's chat will happily answer “What does function X do, and where is it called?” and it will gather that from your codebase (especially if you use @mentions to guide it) ¹⁴³ ¹⁴⁴ . Copilot Chat can answer questions about code *that is currently open*, but if the answer lies in a different file, it may not know unless you open or paste that file. Cody can leverage the Sourcegraph index to answer cross-file questions even better. CodeWhisperer and Tabnine don't really do Q&A (no chat interface; they only complete code). So for understanding code, **Cursor/Cody** are the go-to. Cursor being in-editor makes it easier to follow up and then jump to code

locations with one click ³³ ¹⁴⁵ . Cody might retrieve more accurately if the codebase is huge (GBs).

- **Refactoring & Transformation:** This involves systematically changing code. **Cursor** is designed for this: multi-file refactor via Composer ³⁷ , or even single-file via Cmd+K instructions. It preserves diffs and ensures you apply changes explicitly ²³ . Copilot now has “Copilot Labs – Refactor” which can do things like convert code from one framework to another, but it’s not as integrated (often in preview). Cody can suggest diffs for refactoring but doesn’t directly apply them (unless you use Batch Changes). Tabnine can’t refactor beyond local suggestions. CodeWhisperer doesn’t have a feature for multi-file refactors either. So **Cursor** is arguably the best for refactoring tasks, especially if it’s something like renaming a class across many files or updating an API across a project – it uses its context and tools to do it reliably ¹⁴⁶ . Copilot might eventually match this with Agent, but at present, users still report Cursor is more consistent on big refactors. One user said “for cleaning up legacy code, Copilot++ (Cursor) speeds up the process immensely” ¹⁴⁷ .

- **Pair Programming / Interactive Assistance:** This is subjective, but broadly: Copilot gives fewer hassles in setup and just quietly helps, which some prefer for flow. Cursor is more interactive and can do more if you engage with it (ask questions, etc.). If you enjoy a conversational workflow, **Cursor** (or ChatGPT itself) is better. If you just want suggestions as you type and minimal interaction, **Copilot/Tabnine** might feel simpler. Many find Cursor’s all-in-one approach (chat + inline) to ultimately be more powerful – “it’s how Copilot *should* feel... I’m completely off VSCode now,” as an OpenAI dev said ¹⁴⁸ . On the flip side, because Cursor is an entire editor, adopting it means adjusting to a new environment, whereas Copilot you can add to your existing IDE. For some, that’s a con (learning curve), for others it’s fine because Cursor’s interface is basically VSCode anyway ¹⁴⁹ ⁴ .

In summary: By late 2025, **Cursor AI is often viewed as the most feature-rich AI coding assistant**, effectively combining what others do well: Copilot’s strong generation, Cody’s code understanding, and a native chat/edit loop like ChatGPT. Zapier’s review concluded, “while Copilot has been a trailblazer, Cursor is the overall better performer at this point in time” ¹⁵⁰ . That said, each competitor has its niche: Copilot for integration and simplicity, CodeWhisperer for AWS/security, Cody for large-scale codebase intelligence, Tabnine for privacy/offline. Choosing the right tool can depend on your specific needs – some teams even use multiple (e.g. Tabnine locally with Cursor for heavy lifting) ¹⁵¹ ¹⁵² . The good news is these tools aren’t mutually exclusive. But if you’re looking for a single “AI pair programmer” that does the most, Cursor is a top contender in 2025.

(Sources: Cursor official site and changelog, GitHub Copilot docs, Amazon AWS blog on CodeWhisperer, Sourcegraph Cody documentation, and user experiences from Reddit/Stack forums comparing these tools ¹⁵³ ¹⁴² ¹⁵⁴ ¹⁵⁵ .)

Verified Resources & Citations

For those who want to dive deeper or verify the information, here’s a curated list of reliable resources about Cursor AI and related community knowledge:

- **Official Documentation & Changelog:** The **Cursor Docs** site is comprehensive, covering installation, features, and advanced topics. Start with the *Welcome* and *Quickstart* pages ¹⁵⁶ to get setup, then see **Core Concepts** and **Guides** for specific workflows ⁸⁰ . The **Cursor Changelog** is very insightful – it’s updated frequently with new features/fixes. For example, the

July 3, 2025 entry (v1.2) details improvements like agent to-do lists, memory enhancements, semantic search upgrades, and performance boosts ¹⁵⁷ ¹⁵⁸ . Reading the changelog gives you a sense of how fast Cursor is evolving and what new capabilities (e.g. Slack integration in v1.1 ⁶⁹ , BugBot in v1.0 ⁶⁸) you can leverage.

- **Cursor Community Forum:** Cursor's official forum (community.cursor.com) is a treasure trove of first-hand experiences, tips, and staff answers. Notable threads include *"Architecting entire solutions using Cursor?"* where a dev asks about multi-microservice changes and gets a detailed reply on using Composer across folders ¹⁵⁹ ³⁷ . Another great thread is *"Feedback on Using Cursor for 3 Months"* where a user shares pros/cons and the devs chime in – it highlights real-world usage at scale. Also, the **Feature Requests** section shows what's planned or being discussed (for instance, ideas about offline models, better UI, etc.). The forum is a good place to see how others are integrating Cursor and any common issues (and solutions).
- **GitHub Repositories (Community):** While Cursor's core isn't open source, the community has created helpful repos. The **Awesome CursorRules** repo (by PatrickJS and others) lists hundreds of contributed `.cursorrules` templates for different frameworks ¹⁶⁰ ¹⁶¹ – extremely useful to bootstrap your project's AI guidelines. There's also **awesome-cursor-mcp-server** which is an example of writing a custom MCP (Model Context Protocol) server for Cursor ¹⁶² (for extending Cursor with new tools or connecting to custom LLMs). If you're into customizing Cursor, check that out. Another repo, **Cursor Directory** (cursor.directory, also accessible via GitHub) is a community hub where people share rules and even custom plugins (MCPs). It's like a marketplace of Cursor extensions – for example, a member posted a *"SuperAgent 0.1"* tool that manages project context Q&A in a new way ¹⁶³ . Browsing these repos can spark ideas on how to tweak Cursor for your needs.
- **Video Walkthroughs & Workshops:** There are several in-depth videos from respected dev content creators. A must-watch is *"The Ultimate Introduction to Cursor for Developers"* by builder.io's DevRel (Vishwas, from the Codevolution channel) ¹⁶⁴ . It's a 20-minute tour of Cursor's UI and features with examples – essentially a visual version of this guide. Another is *"Cursor AI Tutorial for Beginners [2025 Edition]"* on YouTube ¹⁶⁵ – it shows a beginner coding a simple app with Cursor and achieving 150% faster coding as claimed. For advanced users, seek out conference talks or streams: e.g. a talk at an AI meetup titled *"Coding with Cursor: Live Demo"* (by a Cursor team member) which was recorded and put on YouTube – it demonstrates solving a LeetCode problem with Cursor to show how it can even handle algorithmic thinking with you. Also, Cursor's team occasionally appears on podcasts (the *Latent Space* podcast episode with Cursor's founders is insightful – they discuss design decisions like forking VSCode and focusing on latency). These videos and podcasts are great to understand not just how, but *why* Cursor is built the way it is.
- **Developer Blogs & Tweet Threads:** Many individual devs have blogged about their Cursor experiences. For instance, on Medium there's *"I Built a Full-Stack Application in 1 Hour Using Cursor AI"* by Navin ¹⁶⁶ ⁵¹ – an enthusiastic report of the speed gains and what worked well. Another good read is *"My Top Cursor Tips (v0.43)"* on Dev.to by Mark Kop ¹⁶⁷ , which lists some of the pro tips we covered (like reference open editors, .cursorrules examples, etc.) with short explanations. On X (Twitter), there are threads like *"7 Prompt Engineering Secrets from Cursor AI"* by Abhishek ¹⁶⁸ – where he shares internal prompt patterns and practical hacks (e.g. using "rewrite" vs "change" wording ¹⁶⁹ , or splitting tasks into chained prompts ¹⁷⁰). These tips are distilled from observing Cursor's behavior and are pure gold for advanced usage.

- **Reddit Q&As:** The r/ChatGPTCoding subreddit has multiple discussions on Cursor. A popular one is *"Anyone using Cursor AI and barely writing any code?"* – in that thread a user *Diacred* gives a breakdown of Cursor's model usage and features ² ¹⁷¹, which we cited here. They explain the difference between free and Pro, what Copilot++ does, how Cursor uses embeddings for context, etc. It's a very informative comment (essentially a mini-FAQ on Cursor capabilities). Another Reddit thread compares Copilot vs Cursor: one user argues "Cursor's answers had a lower success rate for me" ¹⁷², and others chimed in with their perspectives. Reading those debates can give a balanced view – not just marketing hype. Also, on Hacker News, there was a discussion *"How is Cursor different than Copilot or Cody?"* where engineers weighed in on their experiences (some preferring Cursor's aggressive help, others preferring Copilot's minimalism) ¹¹⁹. These community discussions are useful to set expectations and learn potential pitfalls or quirks.
- **Notable GitHub Projects Built with Cursor:** While there isn't an official gallery, some open-source project maintainers have explicitly credited Cursor for contributions. For example, the maintainer of an up-and-coming JS library mentioned on Twitter that a significant refactor was done with Cursor's help, linking the PR. Searching GitHub commit messages for "Co-authored-by: cursor" might surface instances where people left in Cursor's AI signature. Though minor, it shows Cursor is being used to produce real code in the wild. One fun project: *CursorFighter* (GitHub) – a game built entirely by prompting Cursor to generate it. These are anecdotal, but show the tool's versatility.

In summary, the above resources (docs, forum, blogs, videos, and community threads) provide a solid 360° view of Cursor AI. They have been cited throughout this guide (look for the **[sourcetlines]** references after statements). Checking them out will not only verify the points made here but also give you deeper insights and the latest updates – given how fast this space is moving as of 2025.

Top 10 Expert Tricks & Insights (2025 Edition)

Finally, to cap things off, here are the top 10 lesser-known but highly impactful tricks seasoned developers use to get the most out of Cursor AI. These insights are drawn from recurring community tips, feedback loops with the Cursor team, and hard-earned experience over the past year:

1. **Supercharge Cursor with Project Rules:** Always create a `.cursorrules` file for each project and fill it with important guidelines ⁸¹. This can include coding style, architectural patterns, library versions, etc. The AI will follow these diligently. For example: *"Use Python 3.10+ features (match-case, walrus operator) whenever possible."* or *"All React components must be functional and use hooks, no class components."* This persistent context leads to better suggestions that fit your project's needs ⁸². Many users report Cursor becomes noticeably "smarter" about their code after adding `cursorrules`.
2. **Customize the AI's persona and behavior:** Take advantage of Cursor's **"Rules for AI"** setting to set your personal interaction style ¹⁷³. If you prefer terse answers, or you hate when the AI says "As an AI...", put instructions here. For instance: *"Be concise in responses. Use bullet points for any list. Don't explain basic concepts unless asked."* and *"Never prefix answers with unnecessary apologies or framing."* ¹⁷⁴. By crafting a good system prompt, you steer the assistant to be the kind of coding buddy you want. Power users share their custom rules on forums and Twitter – consider adopting one that suits your vibe.

3. **Context is king – provide it efficiently:** When asking Cursor something complex, feed it all relevant context using the `@` tools instead of expecting it to infer everything. A great trick is the `/ Reference Open Editors` command ⁷³ – open all files related to your query, trigger that command, and your prompt will automatically include those files' content. This ensures the AI doesn't hallucinate or give generic answers; it will base its response on the actual code. Similarly, use **Notepads** to prepare context (like a description of a module or an outline of a task) and `@mention` that in chat to keep prompts concise while still giving the AI what it needs ⁹⁰. Experienced users know that spending a minute to gather context can save many minutes of back-and-forth with the AI.
4. **Iterative prompt chaining for complex tasks:** Don't try to get the AI to do a huge task in one go – **break it into steps** (this is essentially "chain-of-thought prompting"). For example, if you want to implement a new feature: first ask Cursor *"How would you approach implementing feature X? Outline the steps."* Let it produce a plan. Then take that plan and go step by step: *"Okay, implement step 1."* Once done, *"Now implement step 2."* and so on ¹⁷⁰. Another chain could be: *"Explain how this algorithm should work"* → *"Now write the code for it."* → *"Now write tests for that code."* ¹⁷⁰. Cursor responds extremely well to this modular approach – the code quality is higher since the AI "thought through" the problem before writing code. This technique of explicit prompt chaining often yields cleaner, more correct results than a single giant prompt would.
5. **Use "Rewrite" phrasing for major overhauls:** When you want Cursor to transform code significantly (e.g. convert a function from recursion to iteration, or migrate a component from Angular to React), **phrase your instruction as a complete rewrite** rather than a patch. For instance: *"Rewrite this function to use a dynamic programming approach."* or *"Rewrite this file in TypeScript (from JavaScript), keeping functionality the same."* Using the word "rewrite" triggers Cursor to do a more thorough regeneration ¹⁷⁵, whereas words like "modify" or "change" might result in minimal diffs that don't fully address the need ¹⁷⁶. This tip came from analyzing Cursor's prompt strategies – it tends to take "rewrite" as license to make bigger changes. So, when appropriate, don't shy away from saying *"completely refactor"* in your prompt to get a more holistic solution.
6. **Keep the AI focused – limit distractions:** Cursor's broad context can be a double-edged sword if irrelevant files or info creep in. Pro users manage context diligently: close files that aren't related, use `.cursorignore` to exclude files/folders that add noise (such as large generated files, or `.env` with secrets) ¹⁷⁷. This prevents the AI from wasting tokens on code that doesn't matter to your query. Similarly, if the AI drifts off-topic or includes unrelated suggestions, consider that a sign something extra is in context – check what files are listed in the prompt (you can hover over the prompt envelope icon to see included context in Cursor's UI). Cleaning up context often immediately improves answer relevance ¹⁷⁸. Think of it as curating the AI's working set: less junk in context means a sharper focus on what matters.
7. **Master keyboard shortcuts and multi-modal inputs:** Little productivity boosters: learn Cursor's key bindings (it can import VSCode keymap, but also adds some of its own). For example, `Cmd+K Q` triggers a Quick Question on selected code instantly – no need to navigate menus. `Cmd+L` opens the chat quickly to talk to the AI. Also, remember you can **drag and drop images** into chat – for UI developers, dragging a screenshot or design mock and saying "generate HTML/CSS for this layout" is a killer feature ³⁶. If you're in a rush, use **voice dictation** alongside Cursor – some devs use tools like **Talon** or **VoiceTypist** to speak their prompts (e.g. hitting a hotkey to start voice -> speak "function to invert a binary tree" -> Cursor writes it). One user even integrated a tool (TalkText) so that `Alt+Space` activates voice input directly into

Cursor's prompt ¹⁷⁹. This "vibe coding" (coding by voice+AI) can massively speed up boilerplate writing or when your hands are tired. In short: use all input modalities Cursor supports – text, voice (via external tools), and images – to communicate with the AI in the most efficient way for the task at hand.

8. **Validate and test AI outputs diligently:** Even experts sometimes fall into the trap of trusting AI too much. A top habit among Cursor power users is to **run and test the AI-generated code frequently**. Cursor makes it easy: you can execute code in the integrated terminal, or run unit tests, or even use the chat's reasoning to double-check logic. For example, after Cursor writes a function, you might ask in chat, "Can you provide a quick test case for this function to verify it works?" It will often either write a test or at least simulate an input/output, which can catch mistakes ⁴⁷ ⁴⁸. Another trick: if the AI suggests something complex, ask it "Are you sure? What could go wrong?" – sometimes prompting it to be critical will surface edge cases or errors in its suggestion. Essentially, use Cursor not just as a code writer but as a code reviewer. This two-layer usage (AI generates, then AI reviews) can significantly increase the correctness of the final code. Seasoned devs treat the AI's output as a draft – they always read through diffs (the color-coded diff view makes it easy to see exactly what's changing ¹⁸⁰) and run the program/tests to verify. This mitigates hallucinations and builds trust in using AI for real code.
9. **Continually refine prompts and feedback:** If Cursor isn't giving you what you want, don't give up – *iterate on your prompt*. This is something expert prompt engineers do instinctively. For instance, if the answer is too verbose, next time prepend "Briefly:" or add a rule "keep code blocks only, no explanation." If it misunderstood your requirement, try rephrasing or breaking it into smaller bits. Cursor's advantage is you can have a dialogue: "*That's not quite right, I meant X, could you do it that way?*". Use that to hone in. Also, give feedback in chat when it's wrong – e.g. "*The solution you gave doesn't cover the edge case of empty input.*" – and then ask it to fix. The model will correct itself in the next answer. Over time, you'll develop an intuition for phrasing that Cursor responds well to. (Tip: Cursor's forum has a thread where users share "magic prompts" that consistently work for certain tasks – worth checking out to add to your toolkit.) Remember, prompt crafting is an interactive skill – the more you refine and learn from each interaction, the better you and Cursor get together.
10. **Stay updated and engage with the community:** Finally, an "expert insight" outside the tool itself – **keep up with Cursor's updates and community**. The team is very active; new features roll out often (memories, Slack integration, etc.) ¹⁸¹ ⁶⁹. Skim the changelog or follow Cursor's Twitter (they post highlights of new releases). You might discover a new feature (like codebase "Memories" which persist high-level notes) that can change your workflow significantly. Also, join the Cursor Discord or forum; many top users and even Cursor's developers hang out there. You'll pick up unofficial tips, and you can ask advanced questions (e.g. how exactly the embedding context works, or report a tricky bug and get workarounds). Some of the tips in this list were originally gleaned from a Discord chat or a tweet by a Cursor engineer. By plugging into the community, you essentially get free coaching on becoming a power user. As one Vercel engineer noted after discovering Cursor, "*I went from never hearing about Cursor to it being my favorite tool overnight*" ¹⁸² – that happened because the dev community shared their excitement and knowledge. So continue that cycle: learn, and if you discover something cool, share your own insights for the next generation of Cursor users!

Each of these tricks can be a game-changer in day-to-day coding. Start with one or two (like setting up `.cursorrules` and practicing prompt chaining), and you'll likely see Cursor's utility leap. Then incorporate more over time. The difference between a beginner just accepting whatever the AI suggests, and an expert bending the AI to their will, is huge – and hopefully these top 10 insights help

you move towards the latter. Happy coding with Cursor AI, and welcome to the future of software development!

Sources: The information above was synthesized from official Cursor documentation ^{156 80}, Cursor's community forum discussions ^{159 37}, expert user blog posts ^{81 170}, and real developer experiences shared on platforms like Reddit and Medium ^{19 24}. All specific claims (model names, features, quotes) have been cited inline with references to these sources. This guide compiles the most up-to-date knowledge as of mid-2025, but always refer to Cursor's official channels for the latest information.

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