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My Current OpenAI Codex Workflow That Writes Clean, Reliable Code

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I've been experimenting with OpenAI Codex for some time now. It's powerful — no doubt.

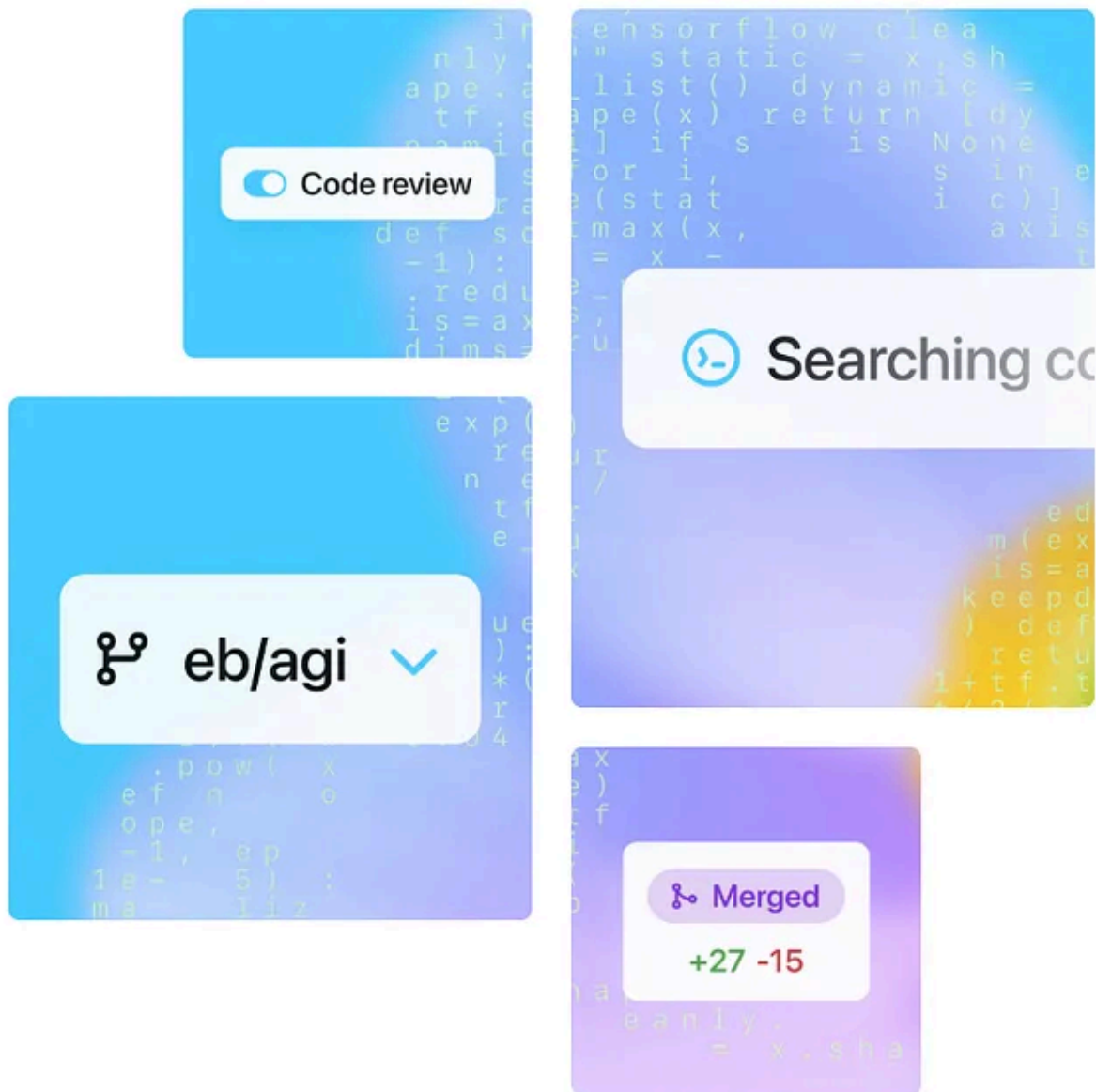
But if you've ever asked it to build something serious, you likely know the frustration:

The code appears fine at first... until it isn't.

You end up with random abstractions, over-engineered functions, and strange bugs that appear out of nowhere. Been there, done that.

So I decided to stop treating Codex like a “magic coder” and start treating it like a **junior developer** — one who's extremely fast but needs guidance.

This is how this workflow came about. It's straightforward, repeatable, and guides Codex (especially GPT-5) to act like a disciplined engineer rather than an overenthusiastic intern.



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The Problem: Too Smart, Too Fast

Codex loves jumping straight into code. Give it a feature request, and it'll start coding immediately — even if it doesn't fully understand your app.

That's fine for demos, but in a real project, it's a recipe for chaos.

I wanted a system that required the AI to **slow down**, think, plan, and only then begin building.

Turns out, that one change made everything smoother, cleaner, and much more predictable.

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The 3-Step Workflow That Changed Everything

I refer to it as the “Plan First, Code Later” method. It consists of three stages, which must be followed precisely.

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Stage 1: Make It Understand — Don’t Let It Code Yet

At this stage, I tell Codex:

“Your job is NOT to write any code. Just understand what I want and ask smart questions.”

Here’s the skeleton I use:

```
# Initial Explanation Stage
```

```
Your task is NOT to implement yet. Just understand and prepare.
```

Here's what I need:

[FEATURE DESCRIPTION HERE]

Responsibilities:

- Analyze how this fits in the existing codebase.
- Identify dependencies and edge cases.
- List everything unclear or ambiguous.
- Don't assume anything that's not mentioned.

It's like doing a quick technical spec session.

Codex usually fires back with a list of questions — stuff like:

“Are we using React hooks or class components?”

“Should this connect to the existing auth API?”

You answer those one by one until there's no confusion. Now Codex knows exactly what you want — no guesswork.

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Stage 2: The Plan — Turning the Idea Into Steps

Once everything's clear, I tell it to create a plan.

The plan lives in a file called `plan.md`.

Each step is short, clear, and has a progress emoji to track what's done.

Here's an example:

Feature Plan: User Login

Progress: 0%

- [] Step 1: Setup authentication module
 - [] Create auth service
 - [] Handle JWT tokens
 - [] Connect to database
- [] Step 2: Frontend login page
 - [] Build React component
 - [] Connect to backend API
 - [] Add form validation
- [] Step 3: Session management

- [] Secure cookies
- [] Auto-renew tokens
- [] Logout process

Nothing fancy — just enough structure to keep everything grounded. At this point, you and Codex both share a common blueprint.

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Stage 3: Implementation — Now We Build

Once the plan looks good, I switch to GPT-5 Codex (high) and instruct it to build *exactly* what's in the plan.

Prompt goes something like this:

Now implement precisely **as** planned.

Rules:

- Keep code minimal **and** modular.
- Follow existing naming conventions.
- Comment clearly.
- Update the markdown plan **as each step** finishes.

Then Codex starts coding, step by step, updating progress like:

Progress: 60%
Auth service **done**
JWT handling **done**
Frontend integration **in** progress
Session logic next

Watching it work feels oddly satisfying.

It's like having a focused engineer who never forgets what's next.

. . .

Why It Works So Well

This workflow requires Codex to think like a developer, not merely a code generator.

By splitting the process into “Understand — Plan — Build,” you get:

- Cleaner integration with your existing system
- Zero unnecessary features or guesswork
- Code that’s consistent with your own patterns

The AI ceases hallucinating new architecture and does what you asked — efficiently.

• • •

A Small Example

Let’s say you want to add a **dark mode** toggle in your React app.

In Stage 1, Codex might ask:

“Should I save the theme preference in localStorage?”
“Do you want it synced to user profiles?”

You confirm those details.

Then, in Stage 2, it gives you a plan like:

- [] Add ThemeContext
- [] Create ToggleButton in Navbar
- [] Sync theme to localStorage
- [] Update CSS variables

Finally, Stage 3 is pure implementation.

No surprises. Just code that works.

• • •

The Takeaway

AI can write code — but it needs direction. If you treat Codex like a collaborator instead of a magic box, it produces better, cleaner, and more reliable results.

This workflow doesn't increase complexity; it enhances *clarity*. And in software development, clarity is everything.

So next time you use Codex, don't say "build me X." Say, "Let's understand X first."

You'll be amazed at how much the code improves.

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Responses (1)





Bgerby

What are your thoughts?



James Bangma

Oct 24



Very interesting. Short of programming the code. I have everything else it's necessary to do the trading in terms of what I call the squiggles and wiggles a different time frame frames different equities and different equations. My life is upside... [more](#)



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