

Tabby: Your Keyboard Pal

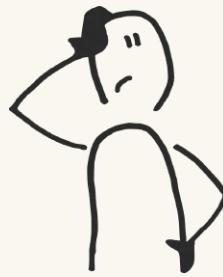


Tabby

TEAM TABBYCAT

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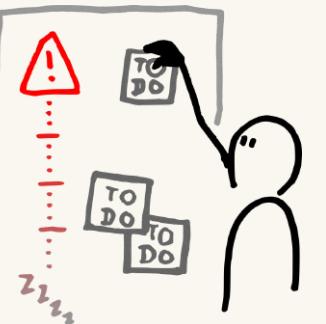
Project Overview



Problem

Keyboards Are Passive!

- They capture keystrokes, not intent
- No awareness of context, app, or goal
- Constant context-switching to prompts & tools



Solution

- An AI-powered desktop keyboard layer
- Works across apps, not inside one app
- Text, voice, and hybrid input
- Real-time, context-aware assistance



Why It Matters

- Cute cat mascot
- AI meets users at the point of input
- Work stays continuous and focused
- Intelligence becomes ambient, not intrusive

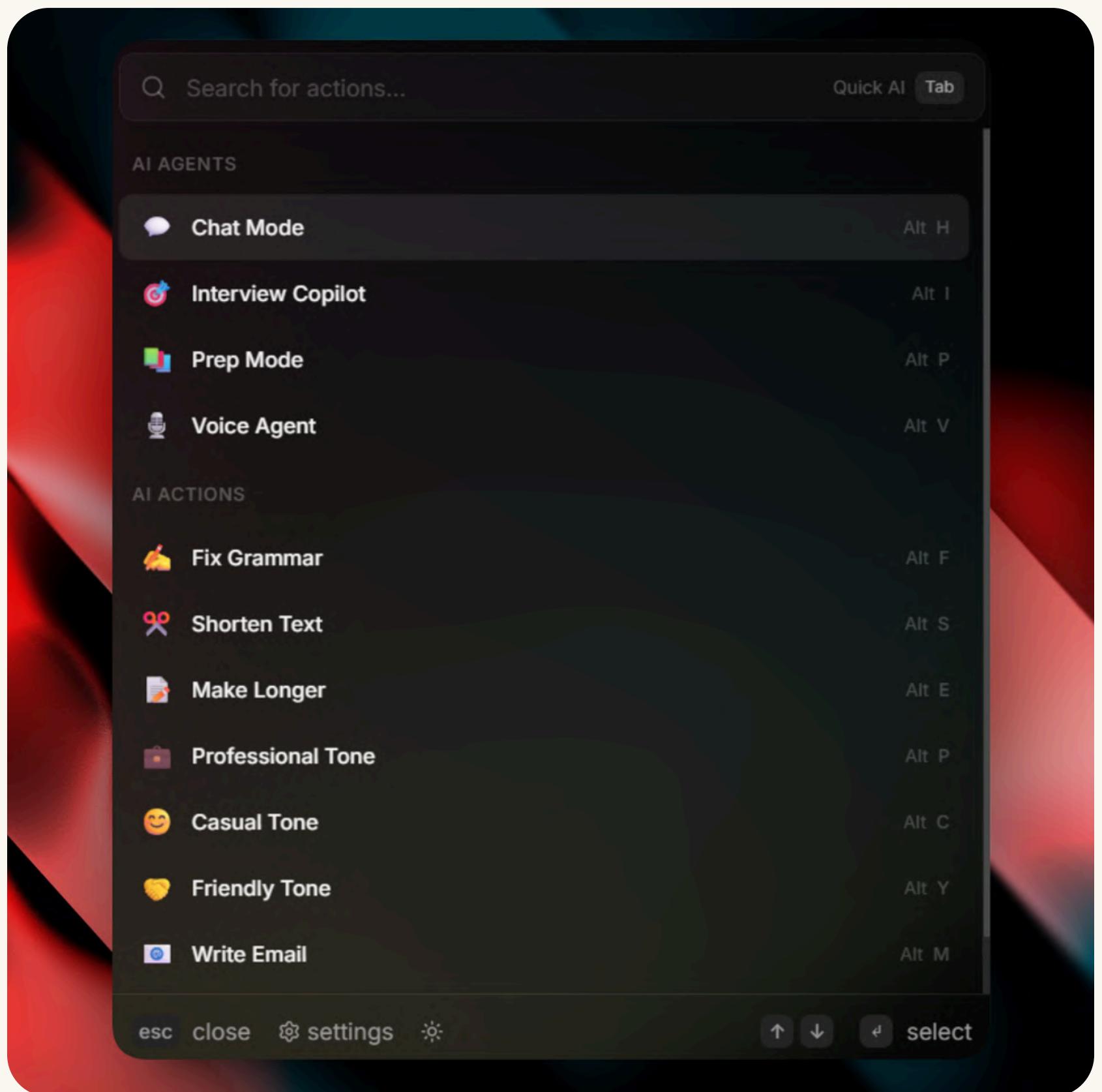
Project Objective

Main Goal

To embed AI directly into the keyboard workflow, enabling continuous, low-latency, context-aware assistance without breaking user focus or flow.

Supporting Objectives

- Design an intuitive desktop app suitable for desktop use
- Include persistent AI memory using RAG + Knowledge Graphs
- Keep the system lightweight, offline-friendly, and distraction-free



Who We Designed For



Target User

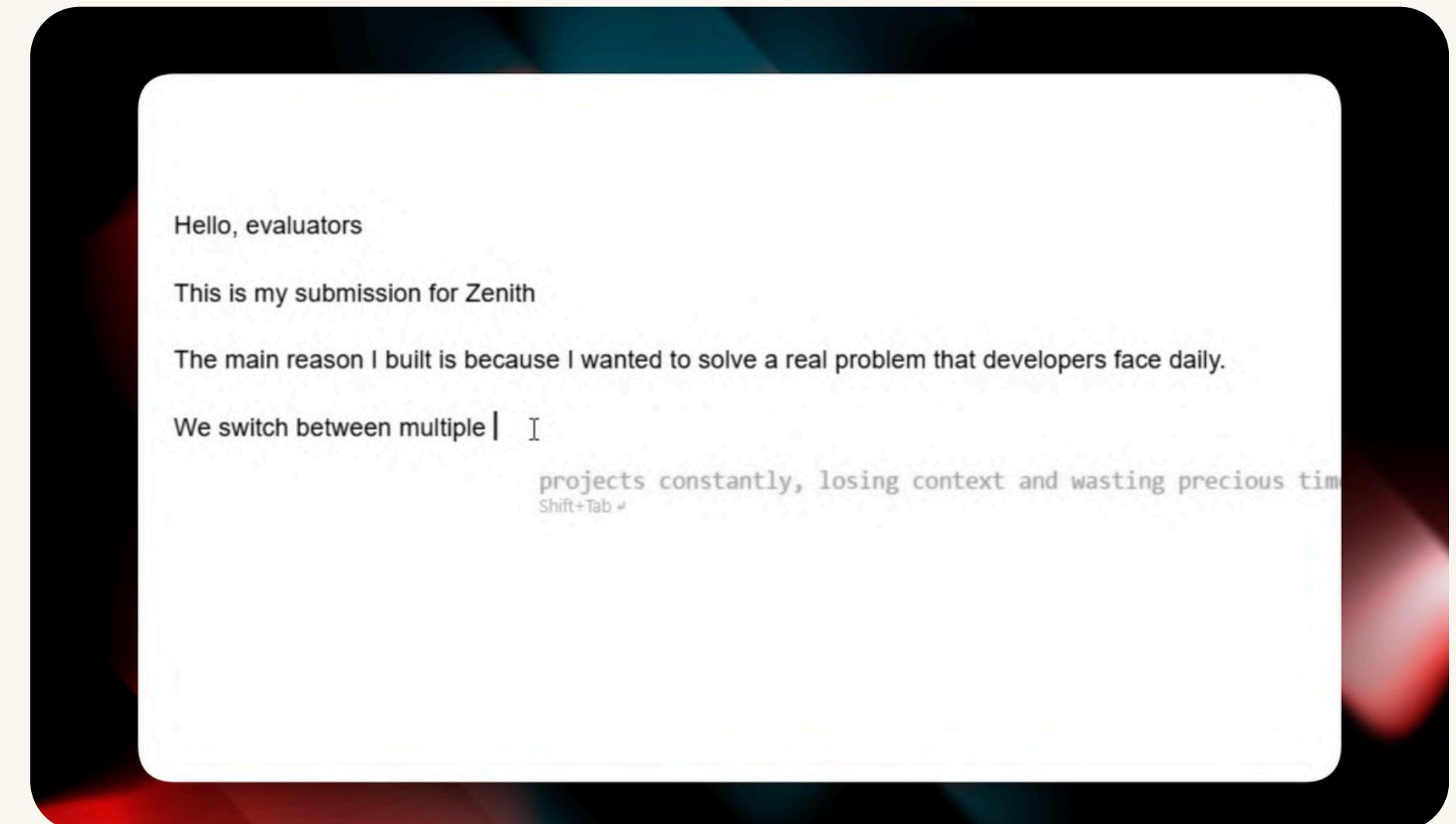
People who live-laugh-keyboard.

- Students & job-seekers
- Engineers & builders
- Writers, consultants, analysts



Their Challenges

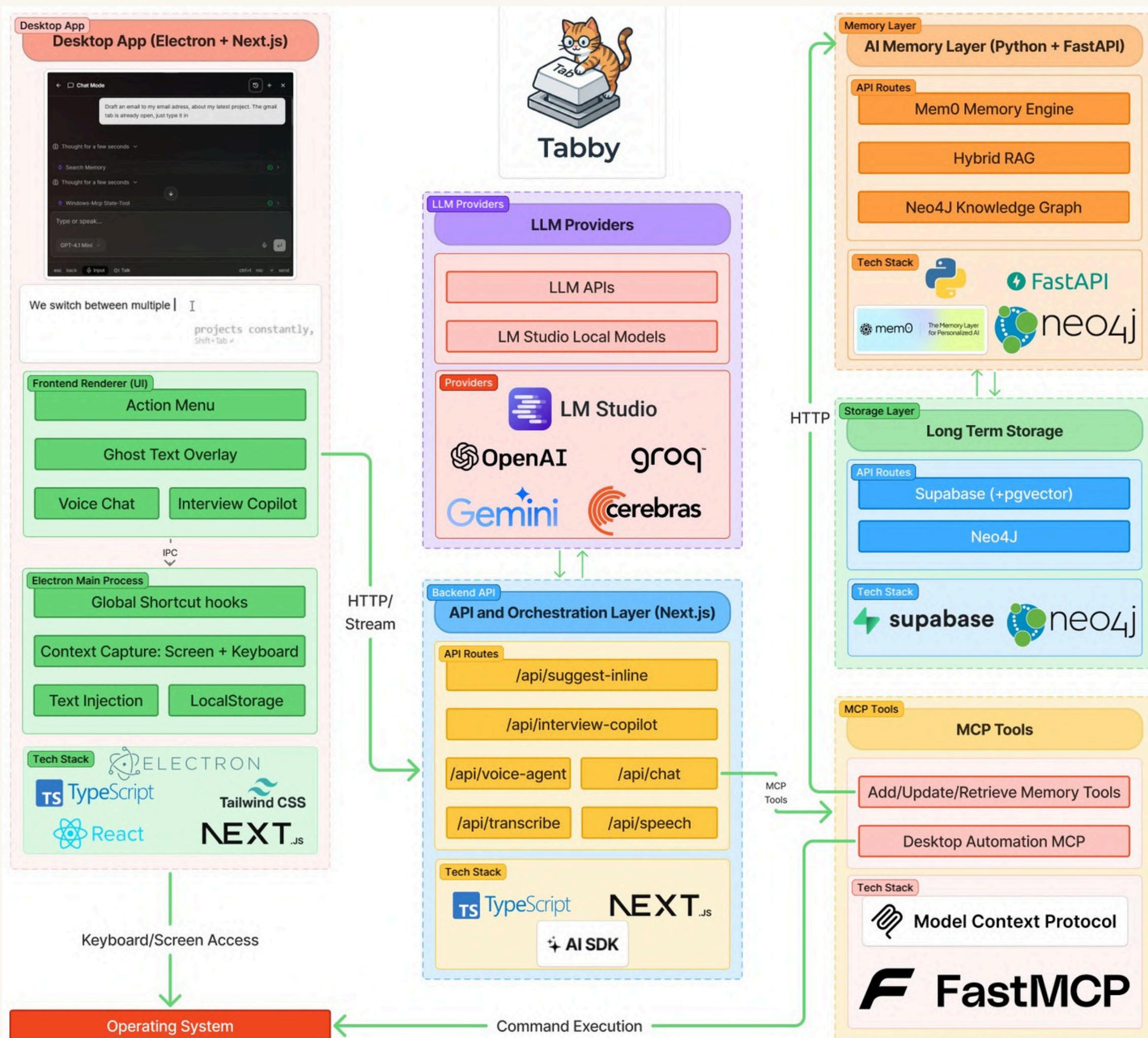
- Jumping between apps to “ask AI”
- Rewriting the same things repeatedly
- Losing context mid-task
- Voice tools that don’t integrate with work



Architecture Diagram

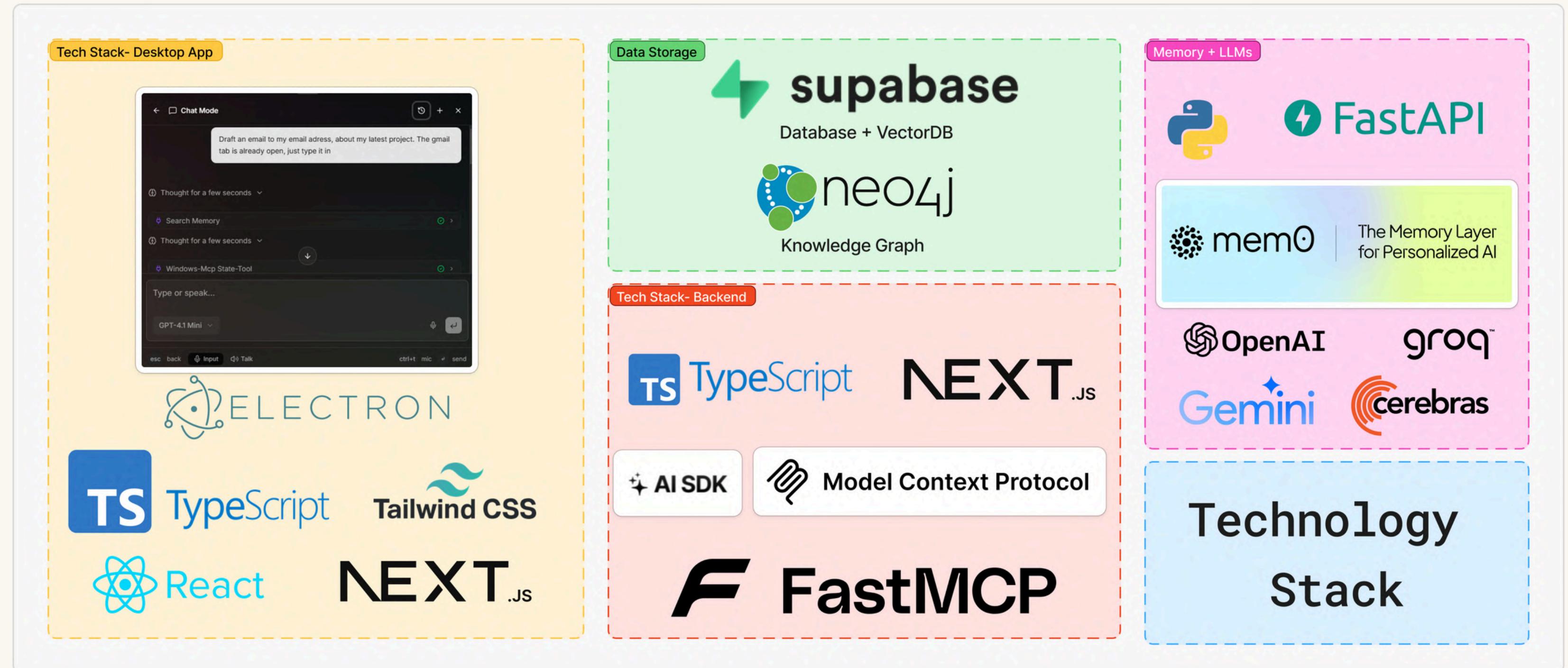
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- **Desktop App:** Electron + Next.js with global shortcuts, ghost text overlay & context capture
- **Multi-LLM Support:** OpenAI, Gemini, Groq, Cerebras + local models via LM Studio
- **Memory System:** Mem0 (local) + Hybrid RAG with Neo4j knowledge graph & Supabase vector storage for vector embeddings
- **MCP Tools:** Model Context Protocol for desktop automation & memory tool access
- **Modular API Layer:** Next.js backend connecting all components via HTTP/SSE



TechStack

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KEY FEATURES

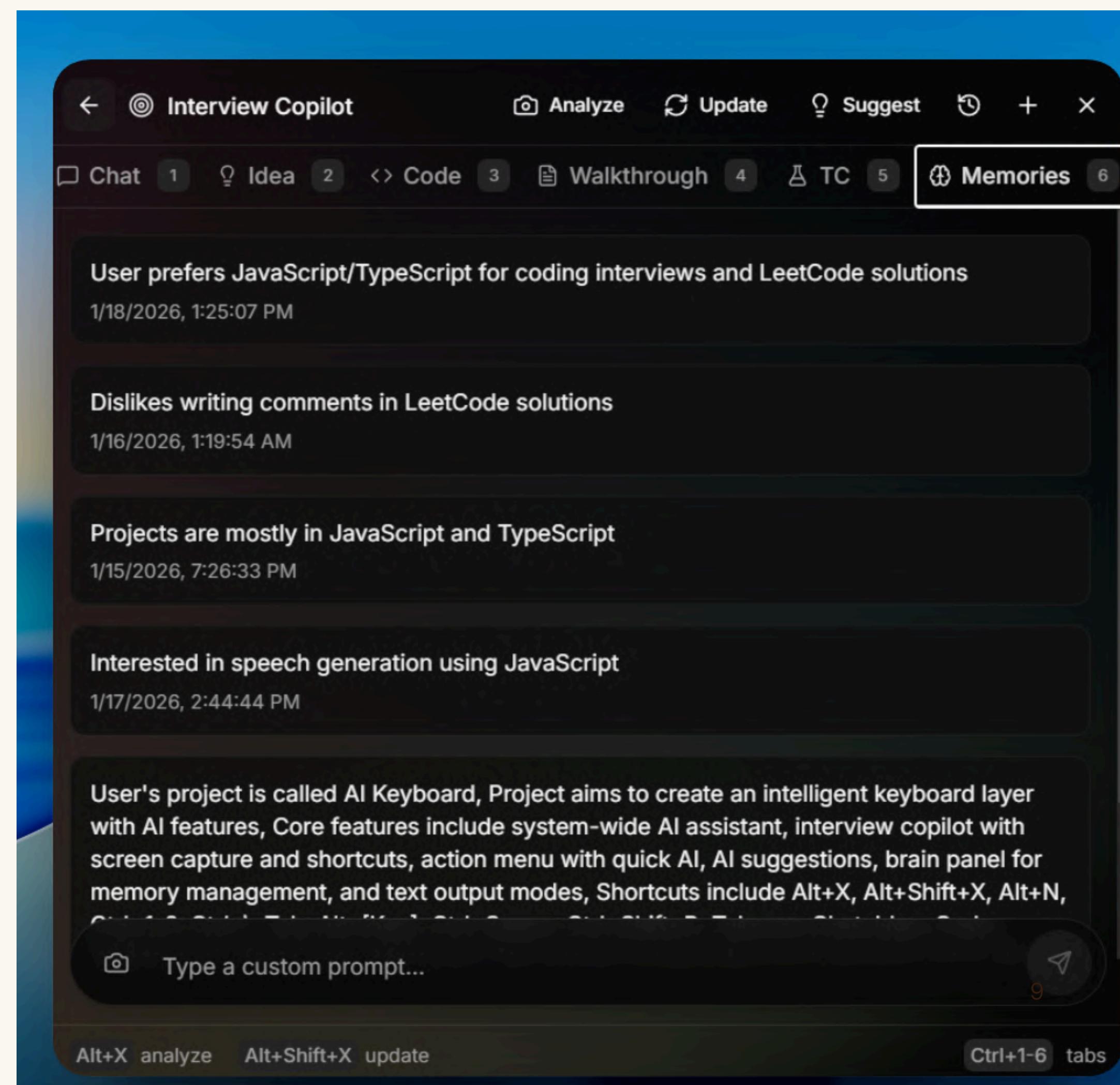
Tabby as a FRAI Plugin

Tabby Improves FRAI's Interview Copilot.

Here's how:

- Extends FRAI with a persistent memory system
- Inculcates Memory-Powered Assistance
- Remembers user profile, role, and interview context
- Tracks past answers and feedback
- Avoids repetition and generic responses
- Adapts guidance across the interview session

The copilot becomes contextual with time, as opposed to being stateless.



Other Key Features

- **Context-Aware Inline AI Autocomplete**

Understands what you're doing from screen
+ keyboard context in any app

- **Always-On, Low-Latency Assistance**

AI that works in real time without breaking flow

- **Text, Voice & Hybrid Input**

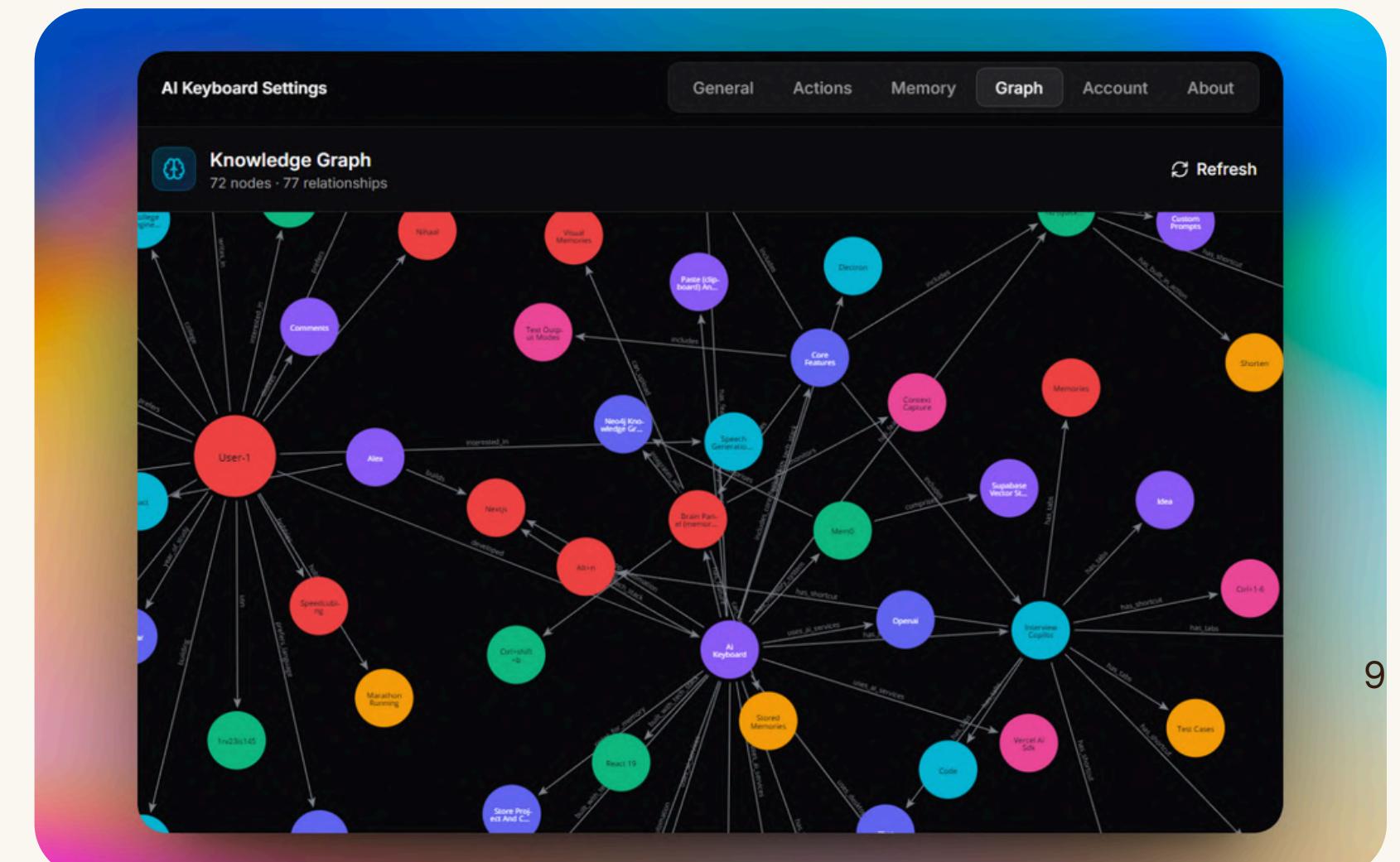
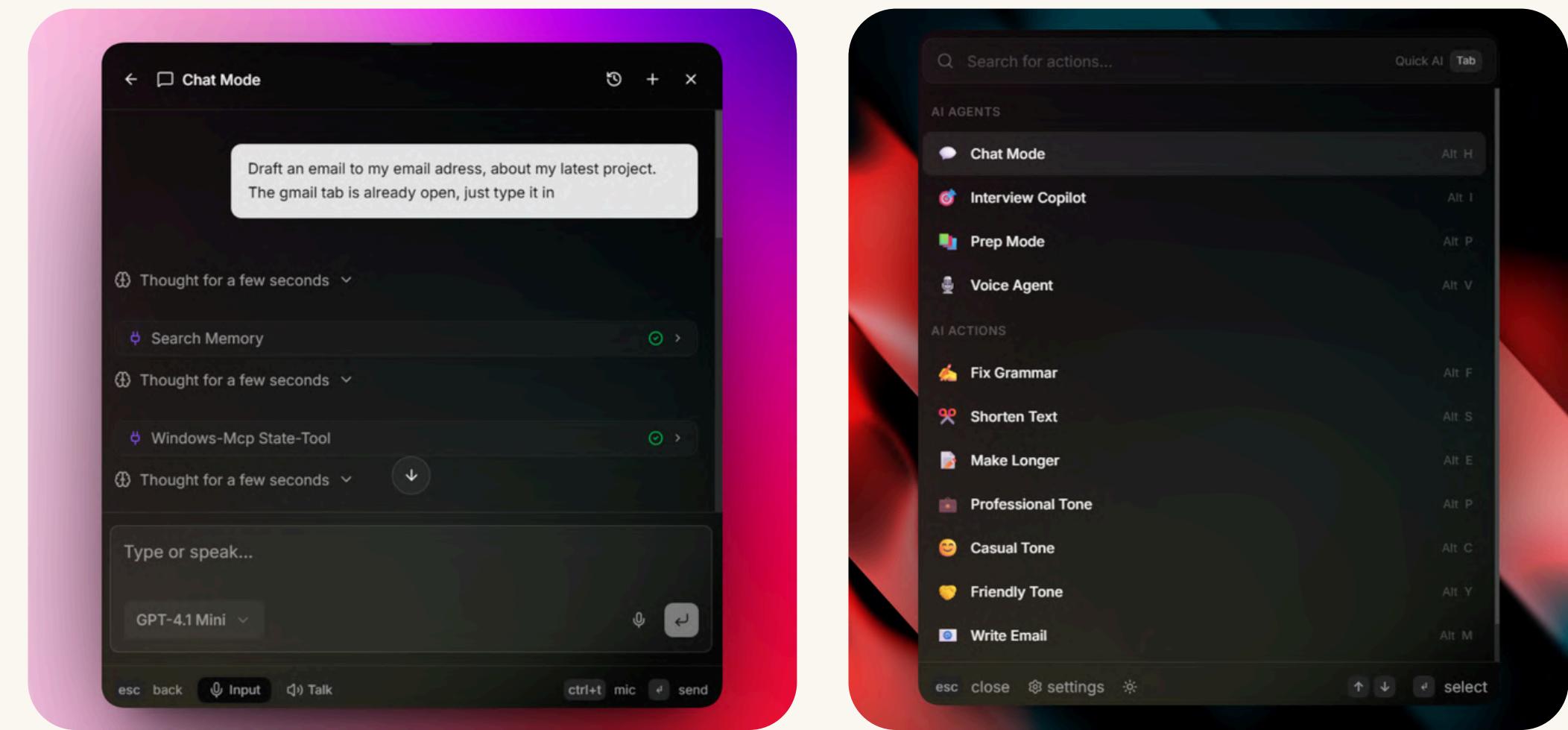
Seamlessly switch between typing and speaking

- **Cross-App Intelligence**

Works across tools, not locked into one app

- Knowledge Graph of memories

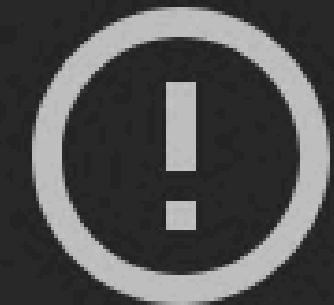
- **Desktop Automation** Open any app and automate mundane tasks



See for yourself!

Our prototype (development in-progress) + face reveal

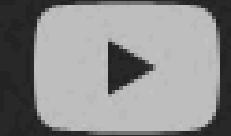




[Watch video on YouTube](#)

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Video player configuration error



[Link: https://youtu.be/u2kaJNginHw](https://youtu.be/u2kaJNginHw)

Tabby says thank you!

“Keycap Tabby isn’t real, it
can’t hurt you”

Meanwhile Keycap Tabby:



Tabby