

From COBOL to Cursor



Human language as the primary
computer interface

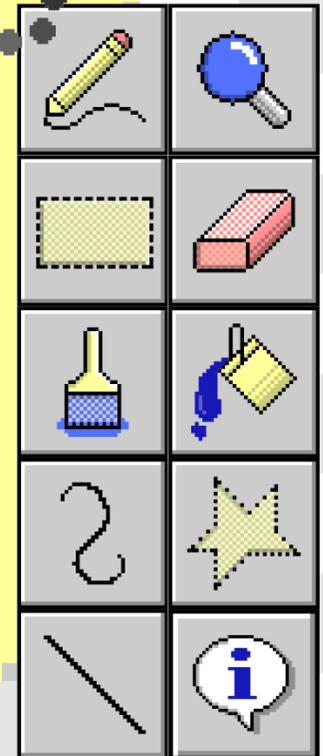
<https://brendan.fyi/cobol>



03:31PM



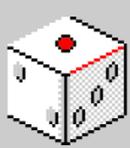
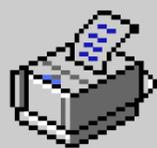
Amazing Grace



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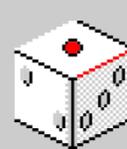
The most dangerous phrase in the English language is 'we've always done it that way.'



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Every revolution
looks like chaos
to the incumbents

Grace Hopper spent 60 years proving that.
Let me show you.



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Who was Grace Hopper?



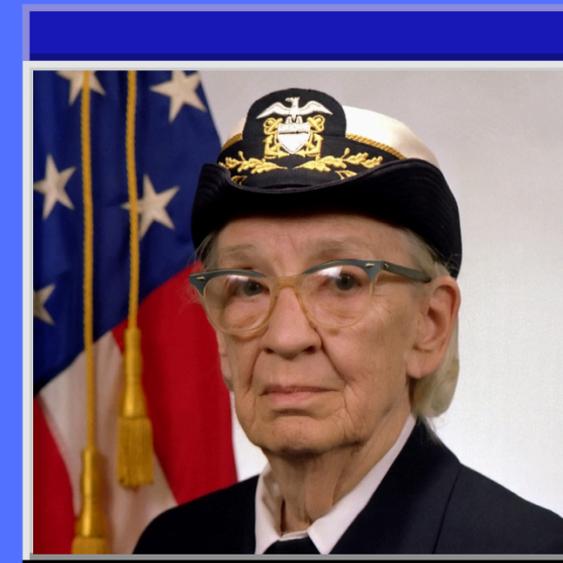
7 Alarm Clocks

...at age 7 she took apart seven alarm clocks to figure out how they worked



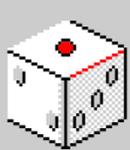
Yale, Vassar, Navy

Underweight for the Navy, but got a special exemption



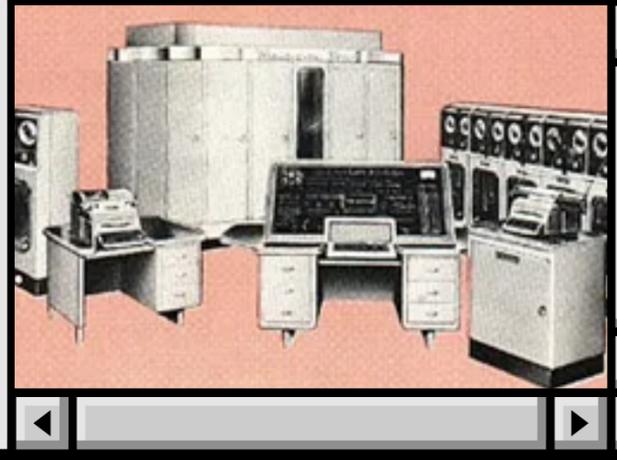
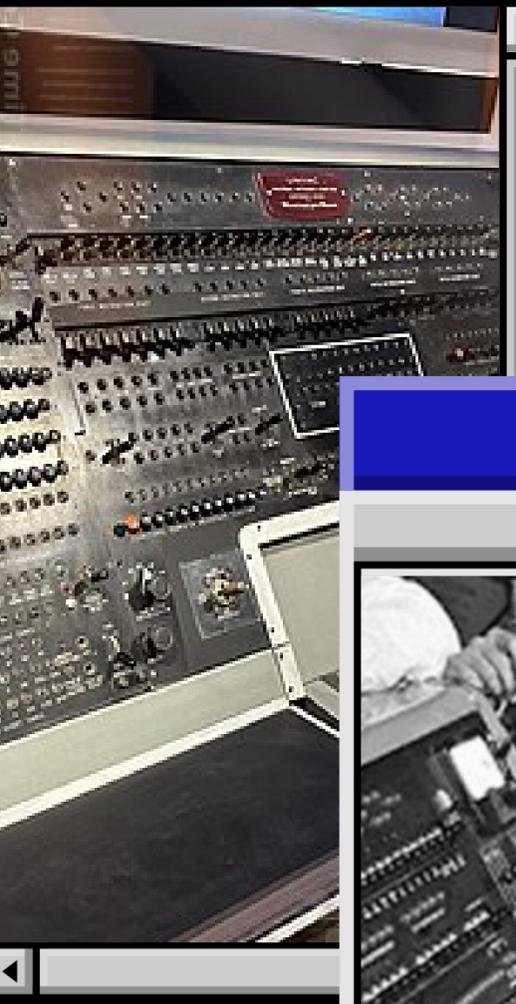
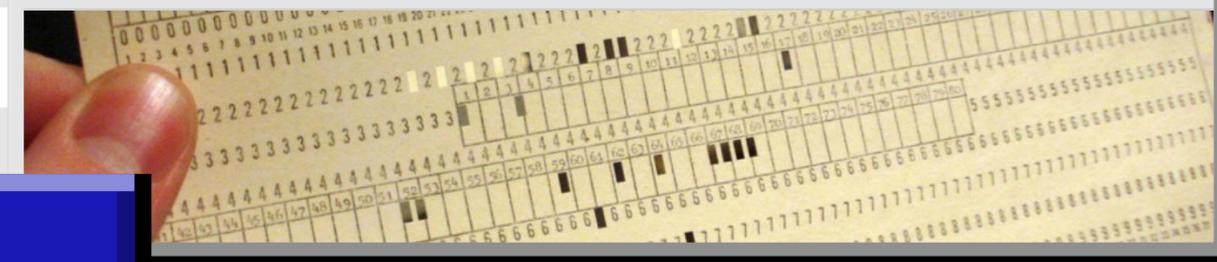
Admiral

1966: Retired
1967: Recalled for a "6 month" assignment...until 1973



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0800 machine started
 1000 " stopped - anclan ✓
 1300 (033) MP-MC 2.130476415
 (033) PRO 2 2.130476415
 check 2.130676415
 Relays 6-2 in 033 failed special speed test
 in relay " " test.
 Relays changed
 1700 Started Cosine Tape (Sine check)
 1525 Started Multi-Adder Test.
 1545  Relay #70 Panel
 (moth) in relay.
 First actual case of bug being found.
 1630 anclan started.
 1700 closed down.



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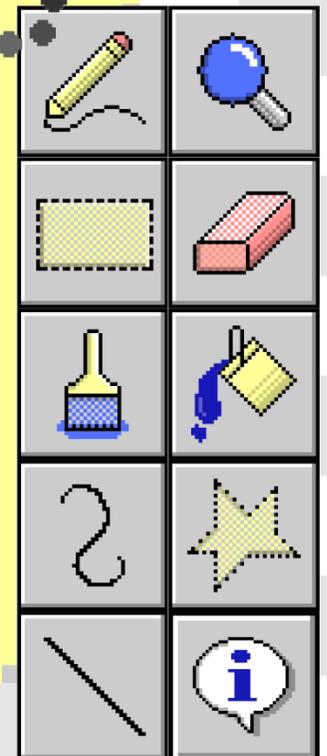
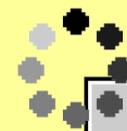


"There was no such thing as a programmer at that point. We had a code book for the machine and that was all."

Report to
 CONFERENCE on DATA
 SYSTEMS LANGUAGE
 Including
 INITIAL SPECIFICATION
 for a COMMON BINARY
 ORIENTED LANGUAGE
 for Programming
 Electronic Digital Computers



The First Revolution



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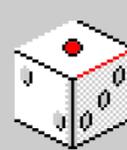
1952

State of the art computer programing

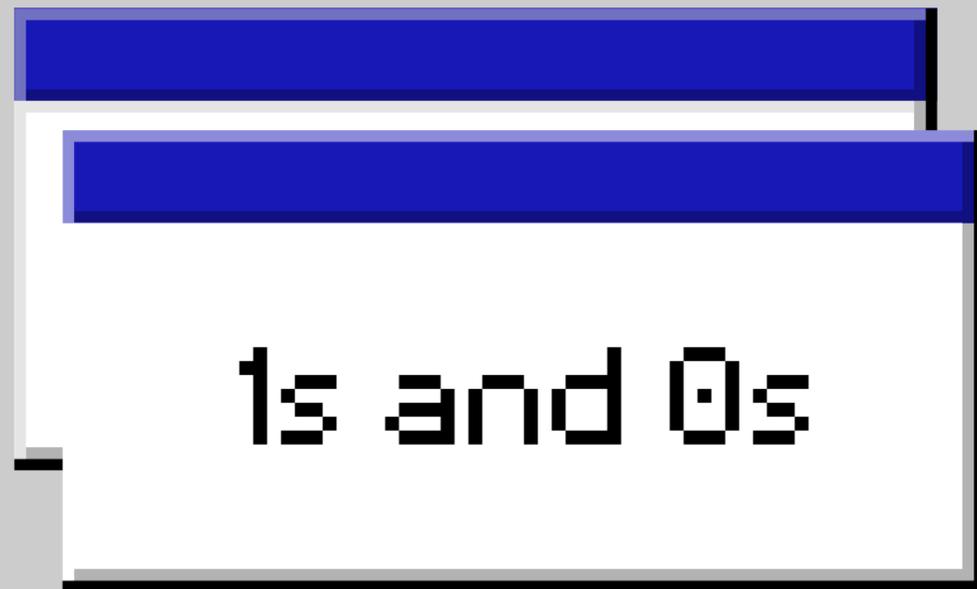


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What I was after in beginning English language (programming) was to bring another whole group of people able to use the computer easily... I kept calling for more user-friendly languages.



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One machine
Punchcard, magnetic
tape, etc.



One machine
Basically mnemonics for
the binary code



Multi-architecture
More like English

Turtles all the way down



LLMs



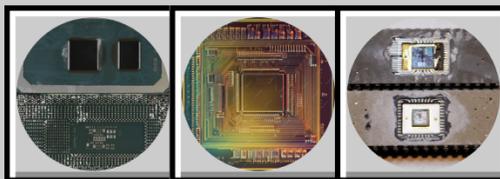
Next.JS
4GB node_modules



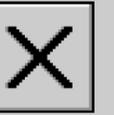
COBOL

Assembly

Machine Code



Turtles all the way down



Machine
Code

Assembly

High-level
languages

Machine Code

01000111

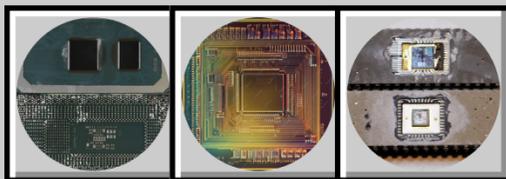
Assembly

COBOL

LLMs

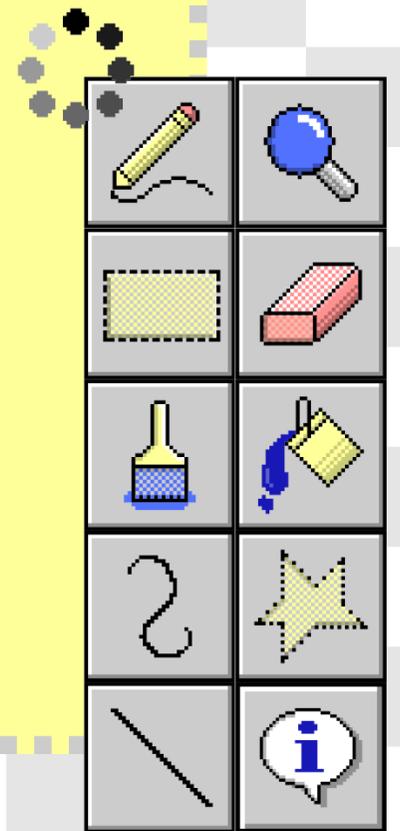
Next.JS

4GB node_modules





The way we've
"always" done it

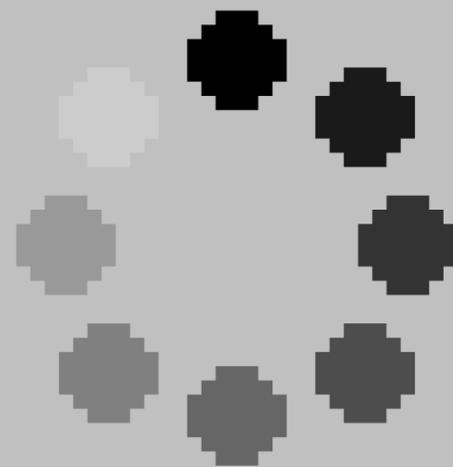


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The way we've always done it

"But Grace, then
anyone will be
able to program!"



Exactly



"That's not real programming"



1950s	Punchcards → Assembly
1960s	Assembly → COBOL
1990s	COBOL → Python
2020s	Python → Prompts

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~~The way we've always done it~~



Home



The Modern Parallel

Start



Cancel

Vibes vs. Engineering

Yes

Ok



Andrej Karpathy 
@karpathy



There's a new kind of coding I call "vibe coding", where you fully give in to the vibes, embrace exponentials, and forget that the code even exists. It's possible because the LLMs (e.g. Cursor Composer w Sonnet) are getting too good. Also I just talk to Composer with SuperWhisper so I barely even touch the keyboard. I ask for the dumbest things like "decrease the padding on the sidebar by half" because I'm too lazy to find it. I "Accept All" always, I don't read the diffs anymore. When I get error messages I just copy paste them in with no comment, usually that fixes it. The code grows beyond my usual comprehension, I'd have to really read through it for a while. Sometimes the LLMs can't fix a bug so I just work around it or ask for random changes until it goes away. It's not too bad for throwaway weekend projects, but still quite amusing. I'm building a project or webapp, but it's not really coding - I just see stuff, say stuff, run stuff, and copy paste stuff, and it mostly works.

6:17 PM · Feb 2, 2025 · 6.8M Views



r/cscareerquestions · 5mo ago
rudiXOR

AI Slop Code: AI is hiding incompetence that used to be obvious

Experienced

I see a growing amount of (mostly junior) devs are copy-pasting AI code that looks ok but is actually sh*t. The problem is it's not obviously sh*t anymore. Mostly Correct syntax, proper formatting, common patterns, so it passes the eye test.

The code has real problems though:

- Overengineering
- Missing edge cases and error handling
- No understanding of our architecture
- Performance issues
- Solves the wrong problem
- Reinventing the wheel / using of new libs

Worst part: they don't understand the code they're committing. Can't debug it, can't maintain it, can't extend it (AI does that as well). Most of our seniors are seeing that pattern and yeah we have PR'S for that,

It can be confidently wrong

Trust but verify: You don't trust junior devs' code without review. You don't trust Stack Overflow answers without testing. You don't trust your own code without tests.

AI shouldn't be held to a different standard—it should be held to the same standard.

It's making engineering a commodity

Every abstraction layer was supposed to reduce the need for programmers. COBOL was going to let business people program directly. Visual Basic was going to eliminate coders.

The result every time: more programmers, solving harder problems, because accessible tools expand what's possible.

You can't trust it for anything important

Do you read the assembly your compiler generates? Do you audit the JIT output of your runtime? At some point, you trust tools that transform your intent into execution.

The question is where to draw the line, and that line has always moved.

A COMPUTER

CAN NEVER BE HELD ACCOUNTABLE

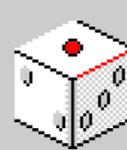
THEREFORE A COMPUTER MUST NEVER

MAKE A MANAGEMENT DECISION



In 1980, Grace said: "I kept calling for more user-friendly languages."

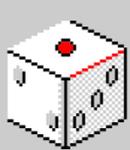
Forty-five years later, the user-friendliest language is...
English.



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1983

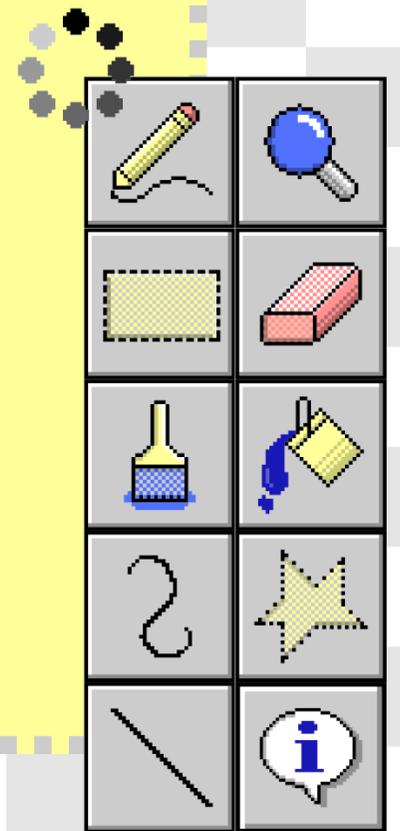
“We’ve got the Model T. That’s where we are now”



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So...
what now?



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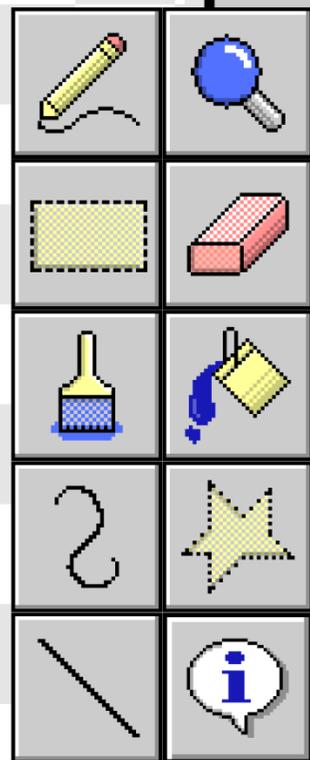
No “fix this bug” or “build it...no mistakes”



Patterns, examples, build good habits



Building an intuition for when to stop, start, restart, push further



Expressing Intent

Software engineering has always been about expressing intent in a structured way





Research

Plan

Implement

- Understand the system
- Find the right structure
- Stay objective

Human-reviewed research results



“Ask” Mode



Research

Plan

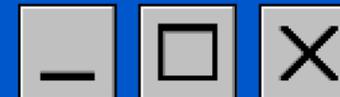
Implement



DEMO



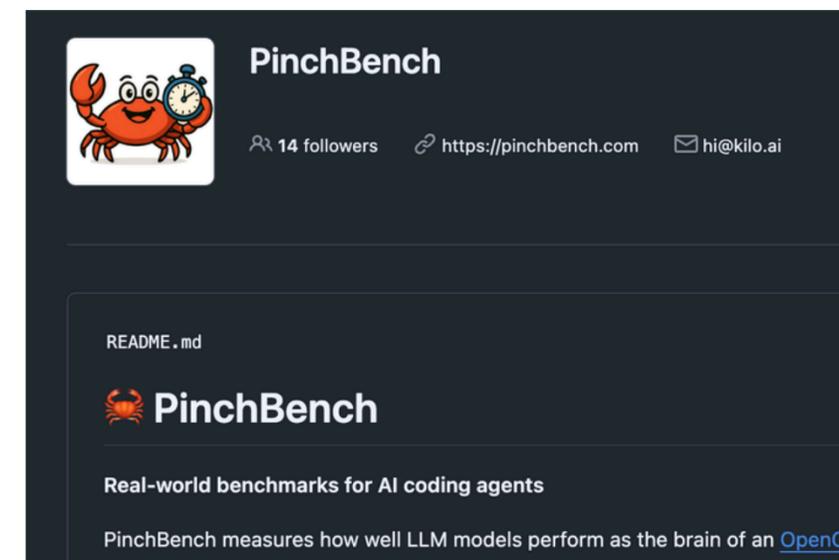
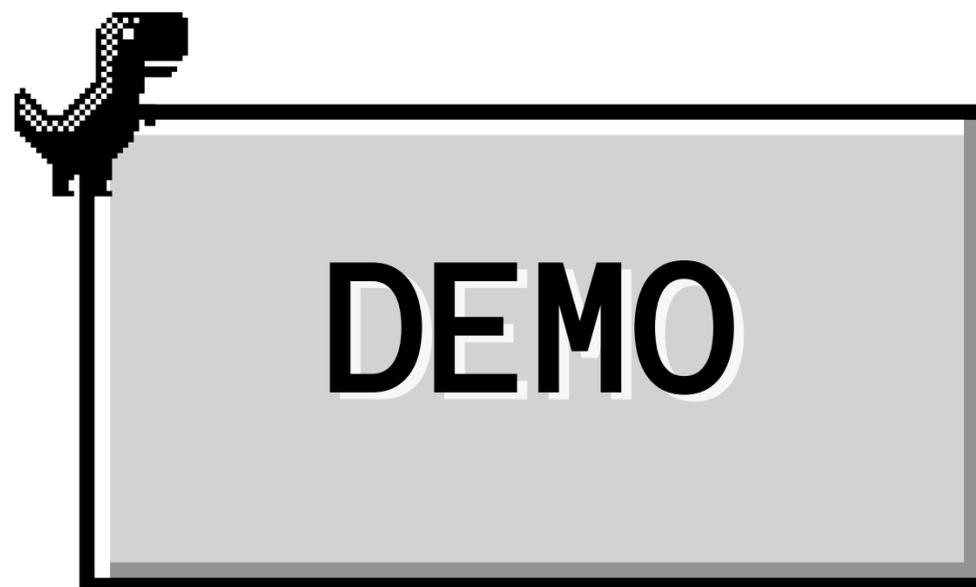
“Ask” Mode

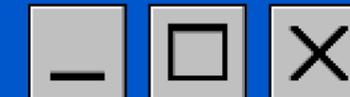


Research

Plan

Implement





Research

Plan

Implement



Peter Steinberger @steipete · Follow

Interesting benchmark on which model is best for @openclaw

Rank	Model	Success Rate
1	google/gemini-3-flash-preview	95.4%
2	minimax/minimax-m2.1	95.4%
3	deepseek/deepseek-v3.2	95.2%
4	moonshotai/kimi-k2.5	95.2%
5	google/gemini-3-pro-preview	95.1%
6	anthropic/claude-sonnet-4.5	95.1%
7	anthropic/claude-opus-4.5	94.7%
8	anthropic/claude-sonnet-4	94.7%

pinchbench.com
PinchBench - Success Rate Leaderboard
Benchmarking LLM models as AI agents across standardized coding tasks

3:58 PM · Mar 7, 2026

2.6K Likes Reply Copy link

[Read 326 replies](#)

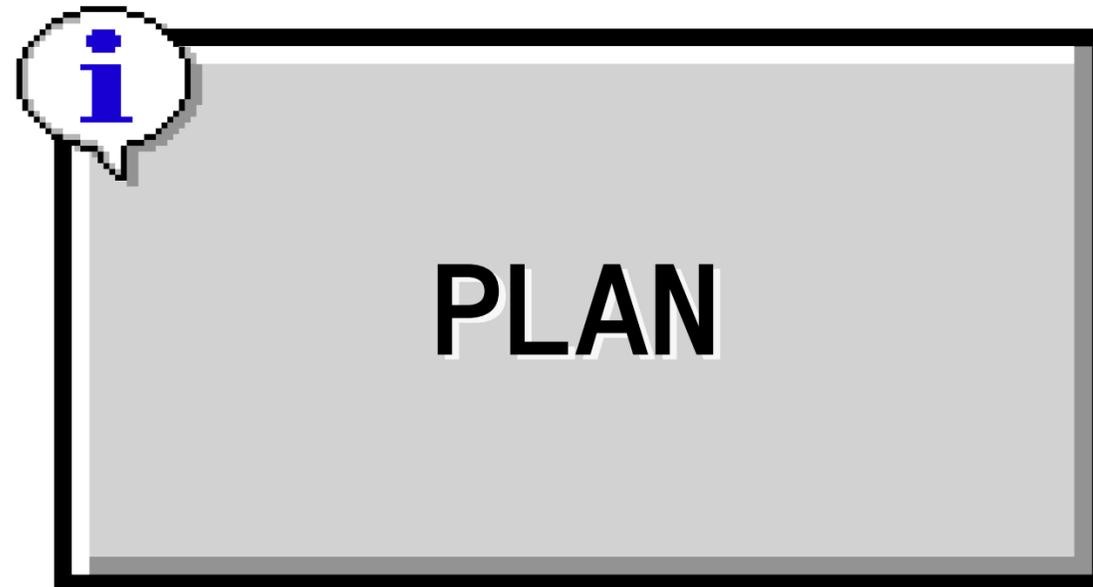
README.md

PinchBench

Real-world benchmarks for AI coding agents

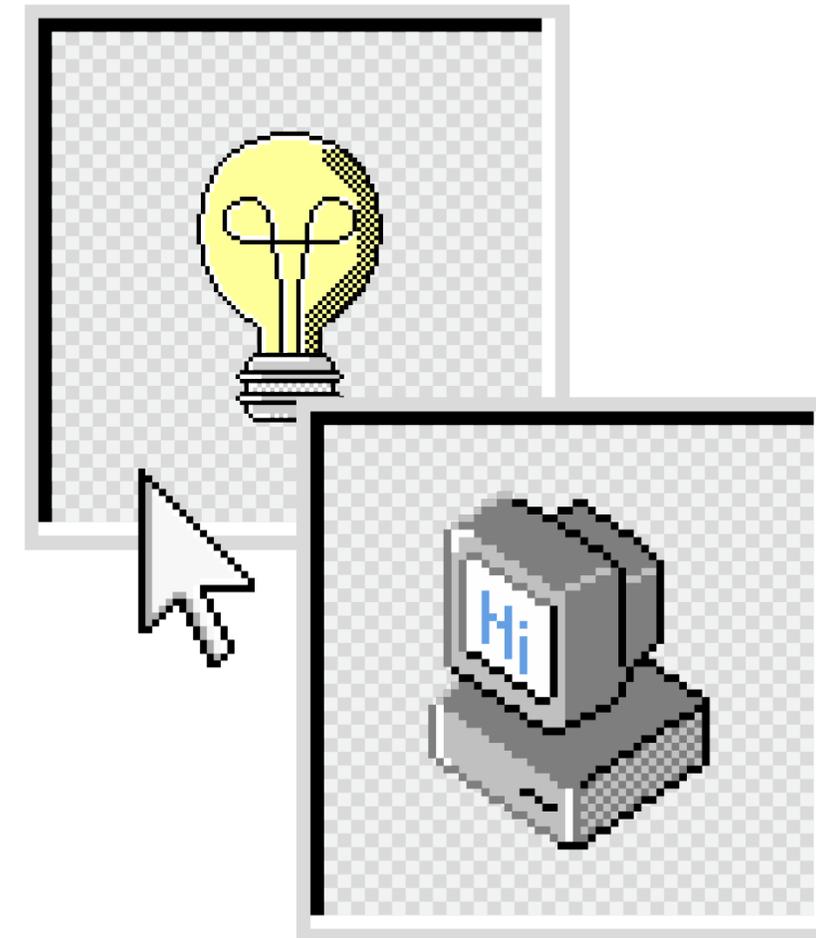
PinchBench measures how well LLM models perform as the brain of an [OpenClaw](#)



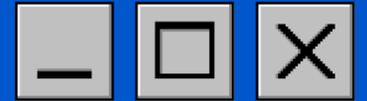


- Outline exact steps
- Include plans for testing
- Be explicit

Human-reviewed plan file



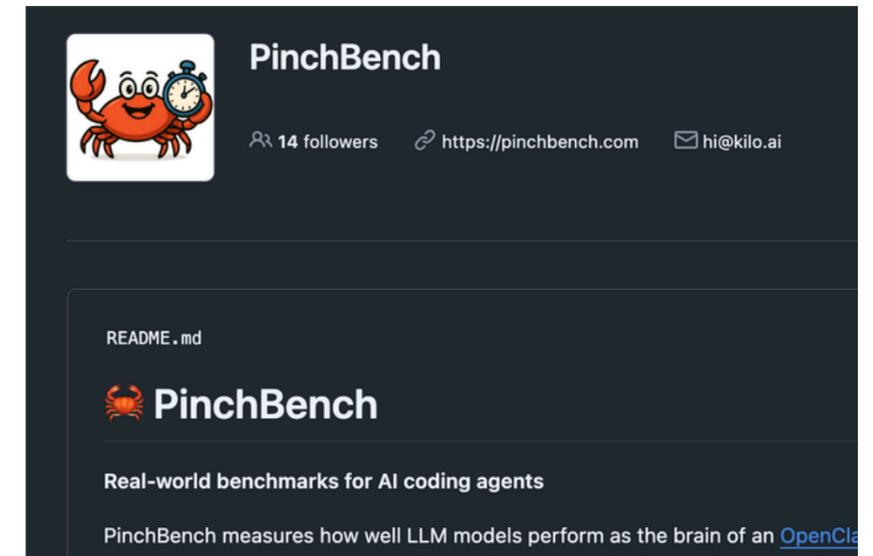
“Plan” Mode



Research

Plan

Implement

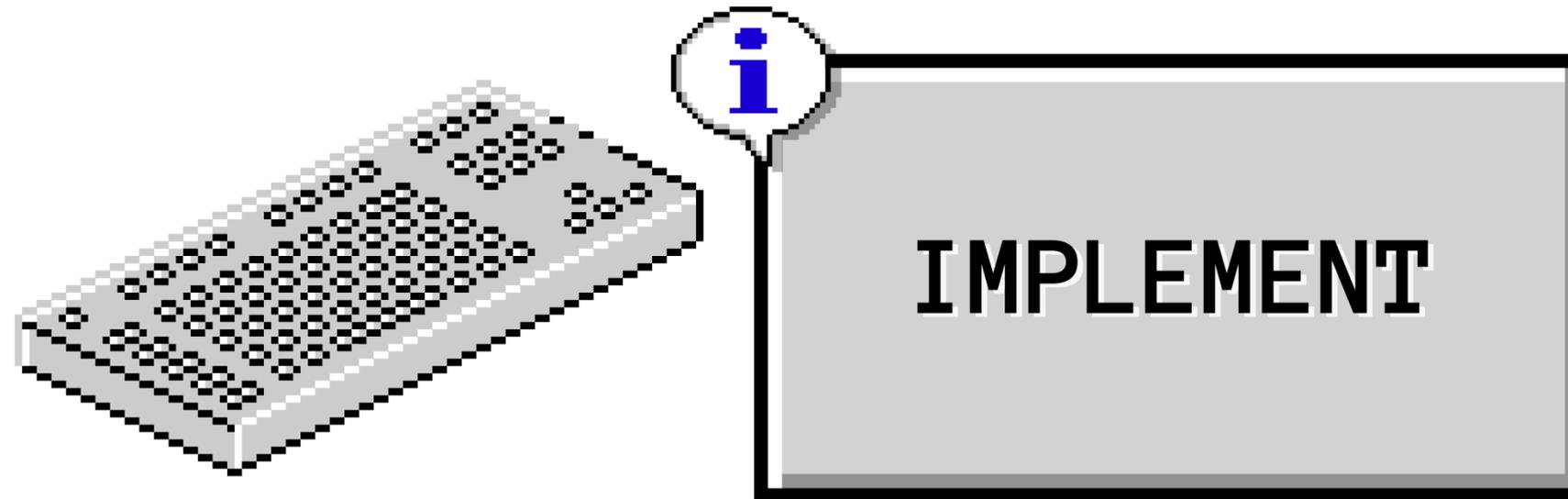




Research

Plan

Implement



- Keeps context low
- Review each change
- Commit frequently

Human review at the **research** and **planning** stages is the highest leverage use of your time



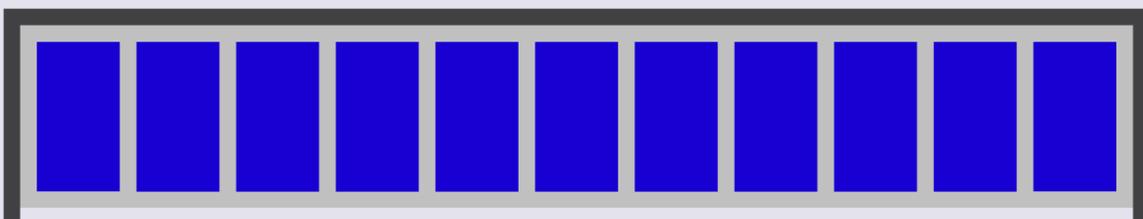
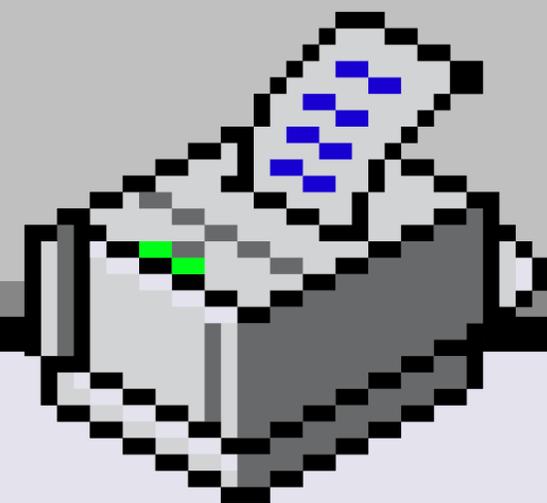
FURTHER LISTENING



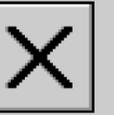
“AI cannot replace thinking. It can only amplify the thinking you have done – or the lack of thinking you have done.



– Dex Horthy



The old disciplines matter more
with AI, not less.



"Writing code is cheap now. Many of our engineering habits are built around the constraint that it was expensive. That constraint is gone."

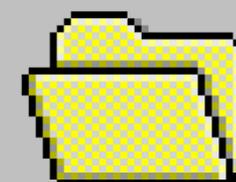
— Simon Willison

FURTHER READING



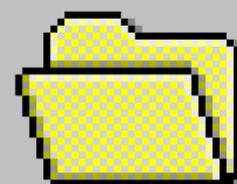
01. path.kilo.ai

Pragmatic guides for engineers, leads, execs



02. agents.md

Open standard for guiding coding agents

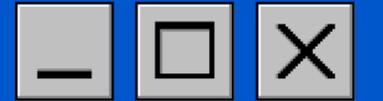


03. simonwillison.net

Deep agentic engineering patterns



@olearycrew



AMAZING GRACE

She didn't write the first compiler so
people could stop learning. She wrote it so
people could learn different things —
higher-level things, more valuable things.



AMAZING GRACE

Punch Cards



Assembly



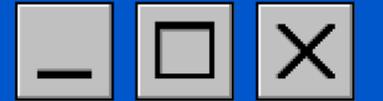
COBOL



Frameworks



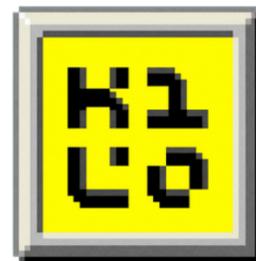
Natural Language



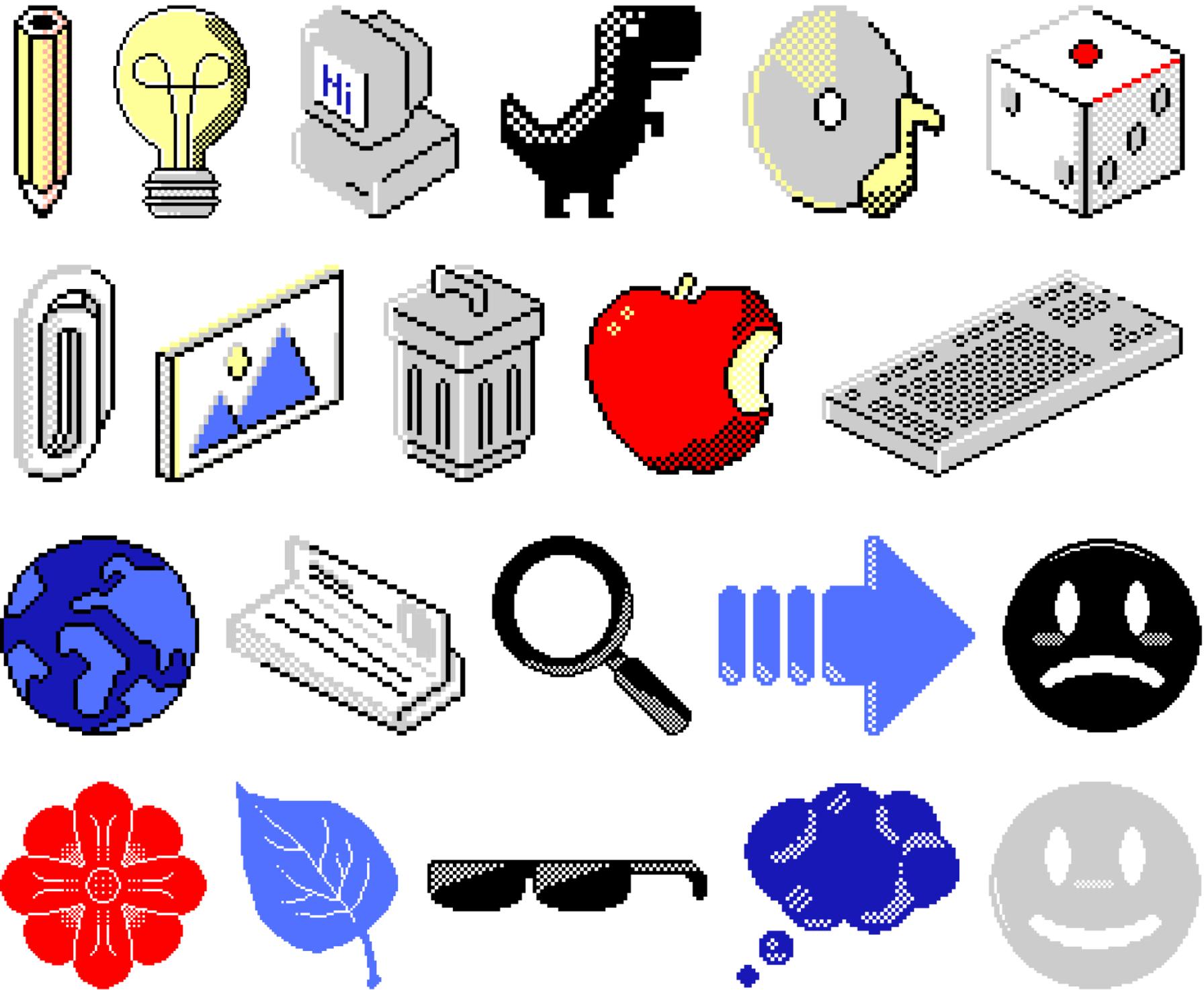
THANK YOU!

kilo.ai

@olearycrew



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