

5 Things

Developers Should Understand About AI Coding

by Tamas Erdelyi

AI is Everywhere

Self driving cars

Chatbots

Fraud detection

Behaviour analysis

Copywriting

Diagnostics

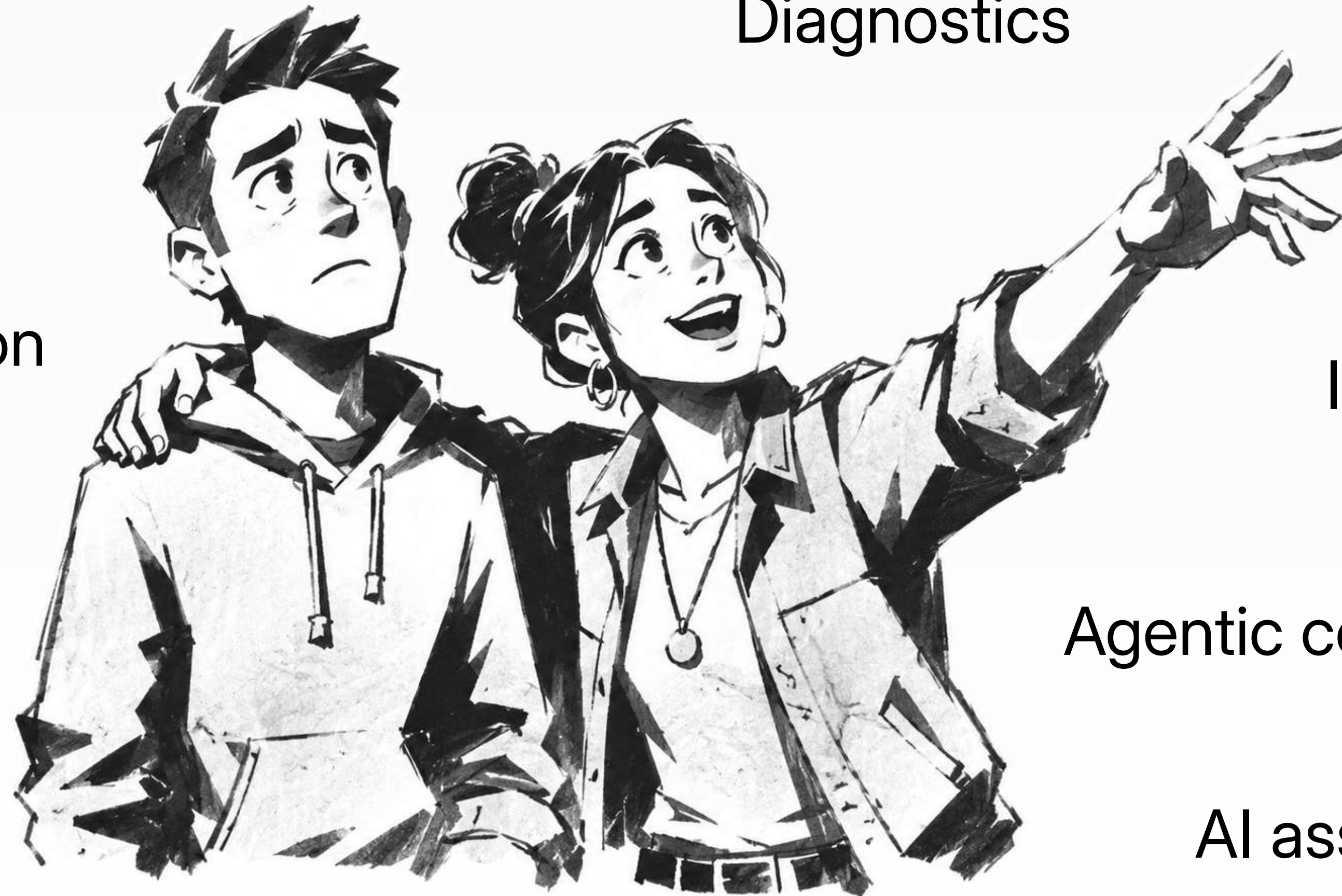
Cybersecurity

Robotics

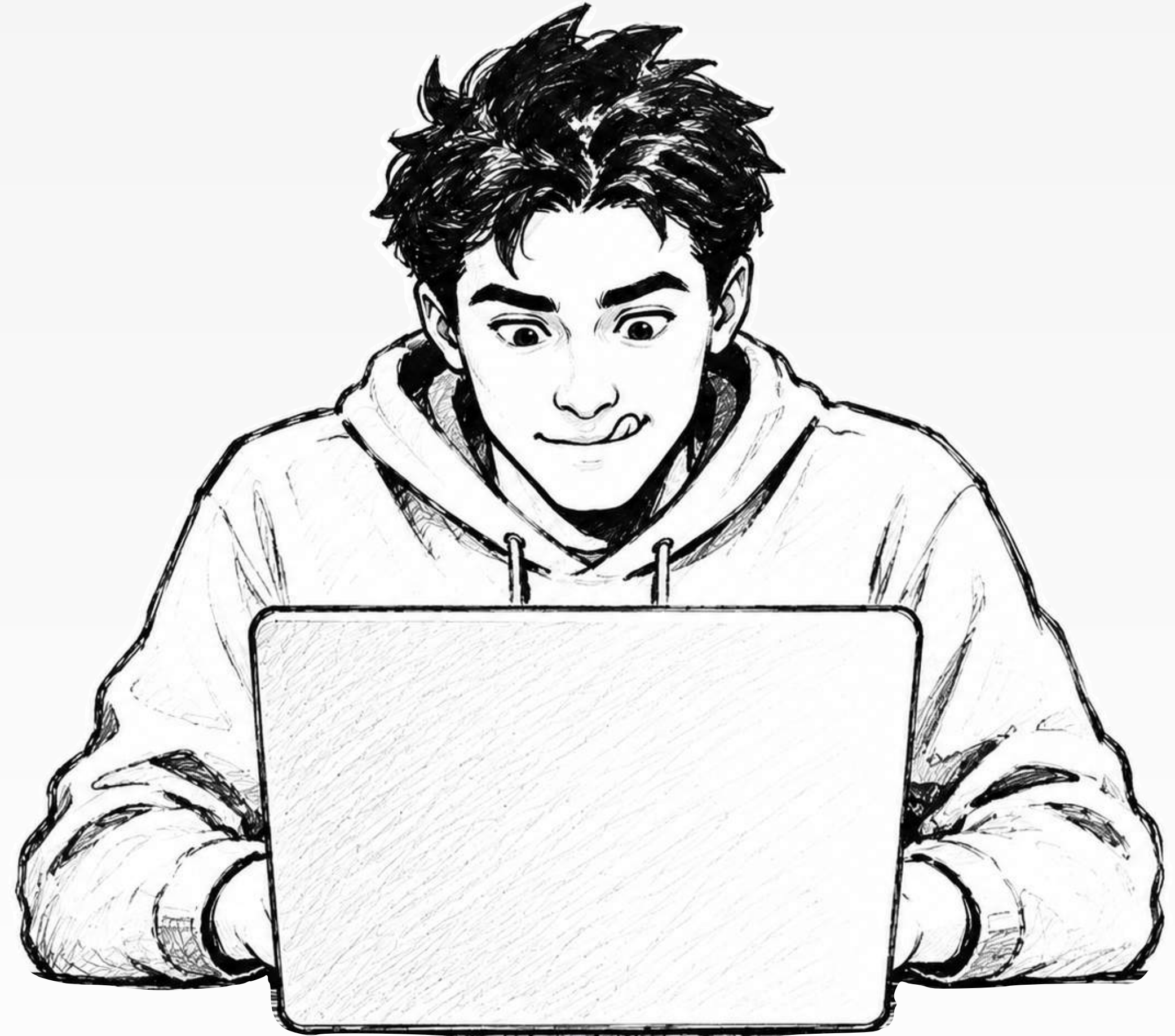
Image and video generation

Agentic coding

AI assistants



#1 Strategic vs Tactical

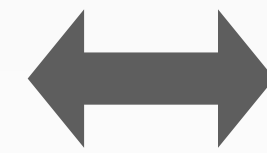


Strategic vs Tactical

by John Ousterhout: A Philosophy of Software Design

Tactical Programming

- Make it work, ship it, move on
- Short-term thinking, feature by feature
- Complexity accumulates fast
- Hard to maintain, hard to hand over
- **Tactical Tornado**



Strategic Programming

- Working code isn't enough
- Long-term structure, better architecture and design is more important
- Investment mindset (proactive, reactive)



#2

Precision vs Utility

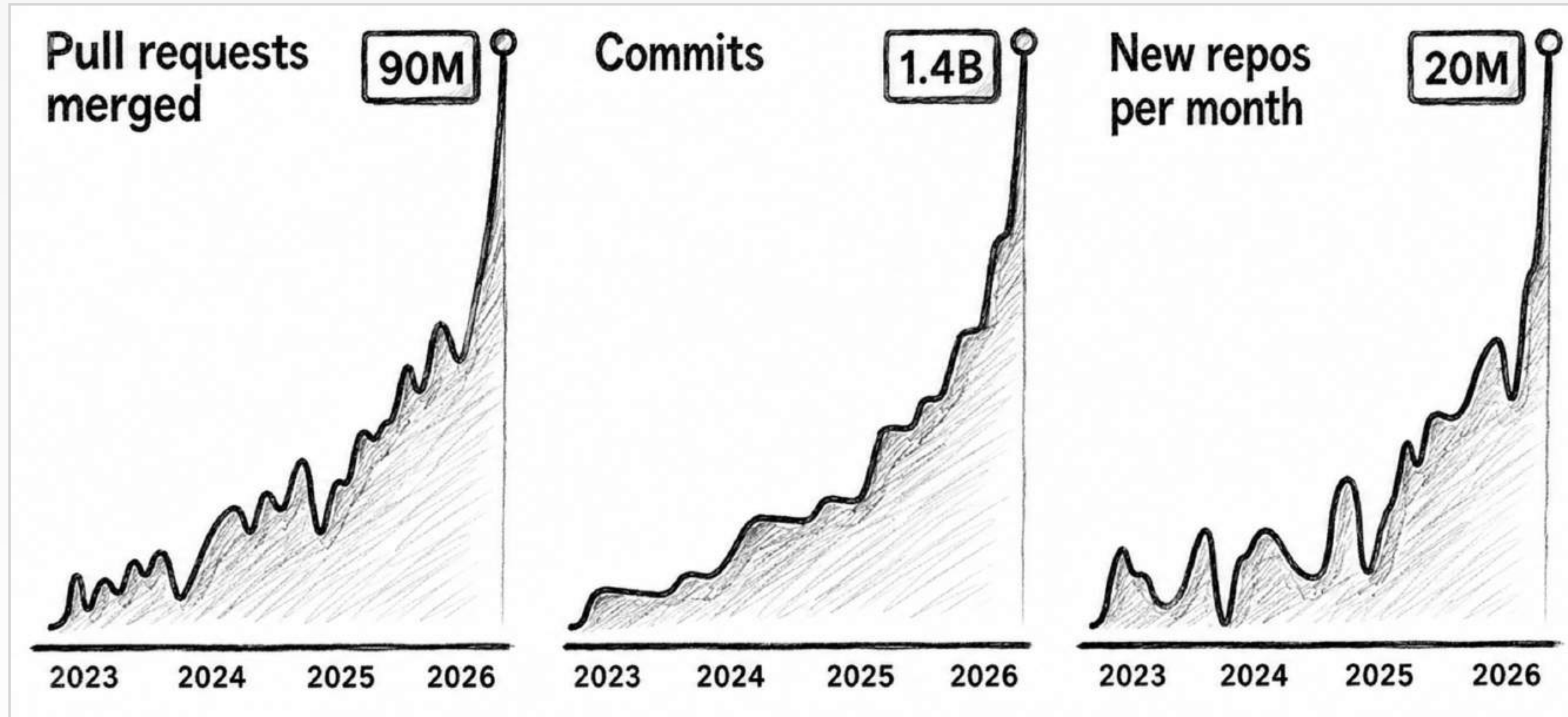
Precision vs Utility

- Probabilistic, not deterministic → same prompt, different output
- High precision demand → usefulness drops fast
- Long prompts → loses focus
- **Use it for exploration, prototyping, but aware of limitations**

#3 AI Slop



GitHub stats



The World of AI Slop

- More code than humans can review
- Ships fast → more code, harder to review → more bugs, more code debt
- AI slop: duplication, coupling issues, outages
- You must own architecture
- **The fix: define small, atomic, independent tasks**

#4

It Makes You Feel Like an Expert Where You're Not



It Makes You Feel Like an Expert Where You're Not

- Unfamiliar territory → feels surprisingly strong
- Familiar domain → average or confidently wrong
- Team of specialists: different training data, different depth
- **Your knowledge is an asset:
it helps to spot flaws and set better directions**
- **Don't stick to one model**



#5 The ELIZA Effect

The ELIZA Effect

```
>i dont know
What does that suggest to you?

>that i am unintelligent
How long have you been unintelligent?

>since i was born
I see.

>arent you supposed to cheer me up
You're not really talking about me, are you?

>no im talking about me
Why not?

>mrh
I'm not sure I understand you fully.

>rg
Come come elucidate your thoughts.

>what is elucidate
What do you think?

>to see
Can you elaborate on that?
```

- 1966 - Weizenbaum's ELIZA, simple pattern matching
- Today: AI sounds more human than ever → Cognitive bias
- Fluency != Intelligence
- **Don't outsource thinking, ethics and decisions**

Recap

1. Be more strategic, less tactical, delegate tasks
2. Understand the fundamentals of AI / LLM
3. Give AI small, atomic tasks to avoid precision issues
4. Don't stick to one model
5. Make sure you don't handle AI as a human

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Let's connect!



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