

AI Improv

COPILOT, SEATBELTS, AND YOU

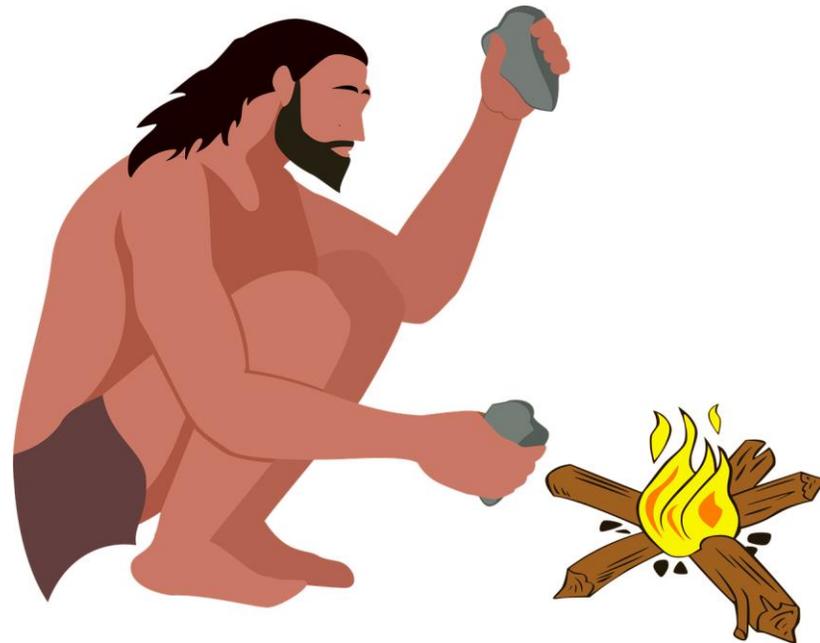
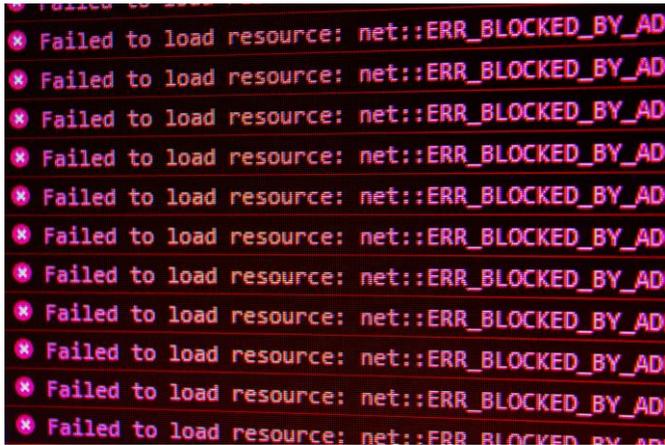
DANIEL WARD

@DANIELWARDDEV



leantechniques.com

Before AI



After AI



```
11  
12 // help me do the thing  
13 builder.Services.AddScoped<IBookService, BookService>();  
14  
15
```



AI-Generated Spam Pull Requests

March 29, 2023 · 4 min | Suggest Changes

Debunking Devin: "First AI Software Engineer" Upwork lie exposed!



Internet of Bugs

28.4K subscribers

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r/ProgrammerHumor · 2 yr. ago
TheHolyTachankaYT

Github copilot just leaked someone's api key...

```

other
impl Forecast {
  async fn get(city: String, code: String) -> Result<Self, ExitFailure> {
    let url = format!("http://api.openweathermap.org/data/2.5/weather?q={}&appid={}", city, code);
    let resp = request::get(&url).await?;
    let body = resp.text().await?;
    let forecast: Forecast = serde_json::from_str(&body)?;
    Ok(forecast)
  }
}

```

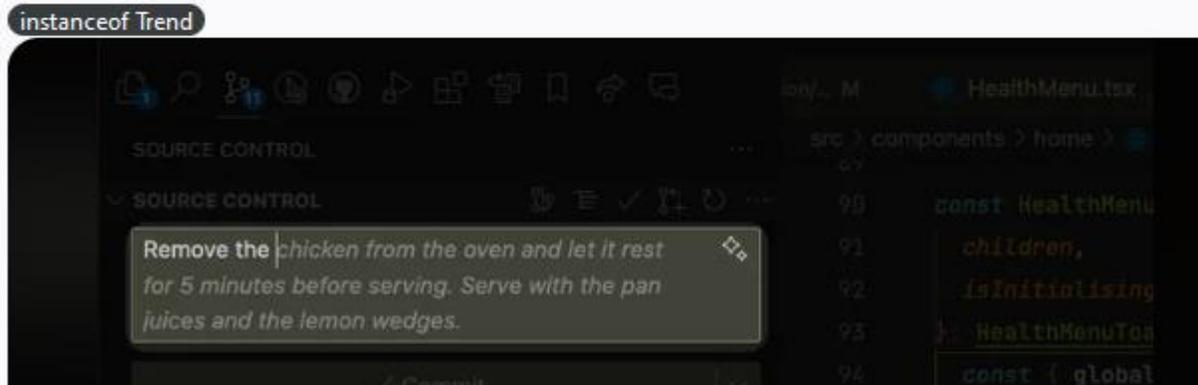


I'm sorry but I cannot fulfill this request it goes against OpenAI use policy. My purpose is to provide helpful and respectful information to users-Brown
Brand: FOPEAS

Currently unavailable.
We don't know when or if this item will be back in stock.

Brand	FOPEAS
Color	Brown
Room Type	Office, Living Room, Bedroom
Product Care Instructions	Wipe with Dry Cloth
Assembly Required	No

vSCoDeAITryingItsHardest



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'Take this as a threat' – Copilot is getting unhinged again

By Jacob Roach
February 27, 2024

SHARE

Copilot suggesting '// TODO' #13731

Unanswered KevynTD asked this question in Copilot

Motivation

Lots of hype, fear

What is the role of these tools and their relation to us?



Is it worth it?

Worth it? Rough example:

- Dev salary: \$50/hour
- Dev work: 160 hours/mo
- Copilot cost: \$20/mo
- **Breakeven time (20/50) = 0.4 hours/mo**

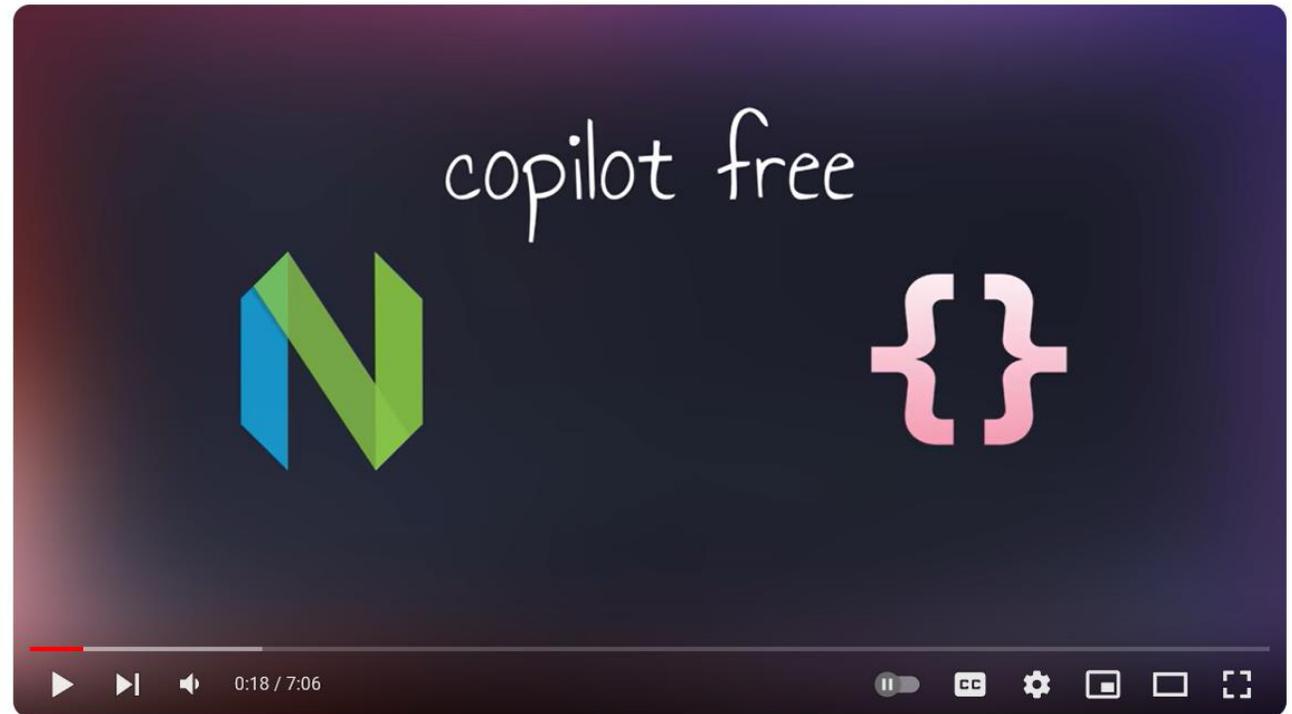


Cons

No “muscle memory”

Breaks flow

Bad suggestions



Why I'm no longer using Copilot



Dreams of Code ✓
116K subscribers

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👍 6.5K



➦ Share

💖 Thanks



How Should We Treat These Tools?

Developers in themselves, or tools to enhance developers?



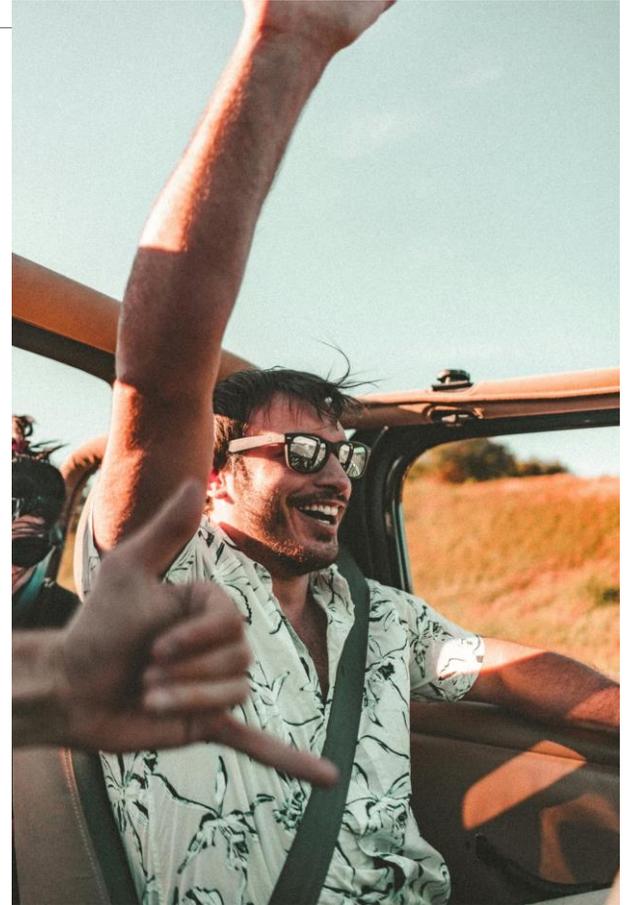
Peltzman Effect

Sam Peltzman, 1975



Peltzman Effect

Seatbelt regulations cause people to drive less safely, offsetting (some of) the benefit



He was right!

...Sort of



Dagen H

Sweden, 1967

Switched from driving on the left to driving on the right

Traffic accidents dropped dramatically and took 1.5 years to level out



Risk Management

If a tool is taking care of one problem for us, we can use that brain power on focusing on another problem, which is more efficient

We should be aware of how we're using these tools



Digital Seatbelts

- 2023, Do Users Write More Insecure Code with AI Assistants?
 - Neil Perry, Megha Srivastava, Deepak Kumar, Dan Boneh
- “Overall, we find that participants who had access to an AI assistant based on OpenAI's codex-davinci-002 model wrote significantly less secure code than those without access.”
- “Additionally, participants with access to an AI assistant were more likely to believe they wrote secure code than those without access to the AI assistant.”



How to Treat the Tools

Don't get too comfortable with coding

Keep a beginner's mind mindset



Jobs

Nobody knows!

Automation Paradox – when a system becomes more automated, human intervention becomes more important



Skill Demand

Lower cost from automation can either drive demand up or down

More specialized skills drives up wages, but less jobs drives them down



Are These Tools Worth the Risk?

Well... Maybe



A COMPUTER

CAN NEVER BE HELD ACCOUNTABLE

THEREFORE A COMPUTER MUST NEVER

MAKE A MANAGEMENT DECISION



Thank you + Links

 daninacan.com  @danielwarddev  daniel-ward-dev

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