DYALOG AI



Dyalog und KI

Stefan Krüger, PhD

DYALOG AI



Dyalog and AI

Worth stating plainly: a load-bearing seam — Claude

Stefan Krüger



Dyalog and AI

Topics for today

Dyalog and AI

Topics for today

- State of the AI nation (from an APLer's perspective)

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Dyalog and AI

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- AI agents for the developer workflow
- Models, tooling
- AI risks, hopes, fears
- ✦ What's Dyalog doing with AI?

MEDIENINHALTE

Studie: Deutsche skeptisch gegenüber Künstlicher Intelligenz

Eine neuer Studie zufolge besteht in Deutschland ein großes Misstrauen gegenüber Künstlicher Intelligenz. Das sind die größten Sorgen der Menschen bei der Anwendung von KI.



Mario Jacob

03.04.2026, 15:38 Uhr · 2 Min

Bei Google bevorzugen



Exclusive news, data and analytics for financial

Hegseth wants Pentagon to dump Anthropic's Claude, but military users say it's not so easy

By **Mike Stone**, **Alexandra Alper** and **Raphael Satter**

March 19, 2026 11:02 AM GMT+1 · Updated March 19, 2026



Anthropic calls its Mythos AI too dangerous for humans, is it real or another marketing stunt?

Anthropic has a new AI model called Mythos. But the company believes that Mythos is way too powerful for humans and hence so far only a few companies have been given access to it. Is it something real or just a marketing stunt? We explore.



Anthropic is keeping the Mythos AI under control (Photo created using AI).

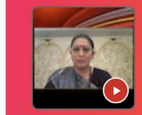


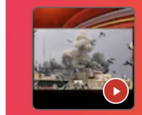
Divya Bhati
New Delhi, UPDATED: Apr 13, 2026 18:29 IST

Anthropic is once again riding the headlines, and this time, the buzz isn't about the standard Claude AI. It's about a new, unreleased model called Mythos, which the company claims is not just immensely powerful, but is capable of independently discovering security flaws and turning them into working cyberattacks. It is apparently so good that Anthropic is calling Mythos too dangerous to be released to the public, and the US government is worried that this AI model may break digital security locks that banks and others use.

ALSO WATCH


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State of the AI nation

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- Mode[illegible] inflection point"-- Simon Willison
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- Agents: the CLI is back!

An LLM agent runs tools in a loop to achieve a goal

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- Agents: the CLI is back!
- Agentic safety *matters*

Model improvements

Smarter, not bigger

- Significant improvements in coding performance: no signs of plateauing out

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- In skilled hands, capable of producing production-grade code in sweet spot languages
- "Too dangerous for humans" - genuine concern or marketing stunt?

Model *APL* improvements

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- Give an LLM the ability to *evaluate* APL, and it will write correct APL code

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Model *APL* improvements

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- Give an LLM the ability to *evaluate* APL, and it will write correct APL code
- It will even write ⎕WC, integrate C-libraries with ⎕NA
- Does it write APL like a pro? No. Is it better at Python? Yes.

Evaluation unlocks fluency

DYALOG AI



Current ChatGPT (web)

DYALOG AI

Ready when you are.

Tell me what it does and how it works:

```
3 (ρρ1,0ρ⍨⊢+.*∘⍳-∘≠) 4
```

in Dyalog APL

+

High

Help me organize my notes so I can find what I need



chatgpt.com/c/6a8d7c7b-01d8-83eb-aac5-98f13d73f2b8

Share

Tell me what it does and how it works: 3 (ρρ1,0ρ⍨⊢+.*∘⍳-∘≠) 4 in Dyalog APL



It produces a 3-by-4 array of alternating `1 0` values:

apl

```
      3 (ρρ1,0ρ⍨⊢+.*∘⍳-∘≠) 4
1 0 1 0
1 0 1 0
1 0 1 0
```

The expression is a tacit function. The easiest way to understand it is from the inside out.

1. The arguments

apl

```
3 (...) 4
```

So:

apl

```
⍺ ← 3
⍵ ← 4
```

The intended final shape is therefore `3 4`.





Tool for calling Dyalog on the command line

Claude Code + Opus 5.5 + dyalog-script

DYALOG AI

❯ Tell me what it does and how it works:
        3 (⍴⍴1,0⍴⍨⊢+.*∘⍳-∘≠) 4
  in Dyalog APL

● **Skill**(dyalog-script)
  ⎿ Successfully loaded skill

● Evaluating the APL train and parts
  ⎿ $ /usr/local/bin/dyalogscript /dev/stdin <<'EAPL'
     f←(⍴⍴1,0⍴⍨⊢+.*∘⍳-∘≠)
     r←3 f 4
     ⎕←⍴r
     ⎕←r
     ⎕←3(⊢+.*∘⍳-∘≠)4
     ⎕←(2 f 3)≡∘•=⍨⍳3
     EAPL

* Sprouting… (27s · ↓ 1.6k tokens · thinking with medium effort)
  ⎿ Tip: Press Shift+Enter to send a multi-line message

❯

  /Users/stefan/work/tmp/demo1
  ▶▶ auto mode on (shift+tab to cycle) · ← for agents

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   EAPL
```

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- It builds a **rank-3 identity array with side 4**: a 4×4×4 Boolean cub
  indices are equal, and 0s everywhere else. In general, `α f ω` gives
  `ω`. I ran it in Dyalog 21.0 and got shape `4 4 4` with 1s only at `[i;
  3×3 identity matrix `∘.=⍨⍳3`.

```
⍴ ⍴ (1 , (0 ⍴⍨ (⊢ +.*∘⍳ -∘≠)))
└─ fork ─┘    └─ Agh ─┘ └──── fork ────┘
```

With `α=3` and `ω=4`:

Part	Computes	Value
`-∘≠`	`α - ≠ω` (the tally of	Jump to bottom (click) ↓

❯ make it work with ⎕IO←0 too

/Users/stefan/work/tmp/demo1
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`0 ρ⍨ …`	`20 ρ 0`	twenty 0s
`1 , …`	a 1 followed by the twenty 0s	length 21

Why it works

- **Diagonal step**: in row-major order, moving from `[i;i;i]` to `[i+1;i+1` elements. In general the step is `+/⍵*0,⍳⍺-1`.
- **The pattern**: the train builds a vector of one 1 followed by step-1 which is exactly what `⍵ +.* ⍳ ⍺-1` computes.
- **Cycling**: reshape `ρ` repeats the pattern to fill the `⍵ ⍵ … ⍵` shape. 21, 42 and 63, which are the main diagonal.

* Crunched for 34s · done 15:18

❯ make it work with ⎕IO←0 too

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Evaluation really helps

- Claude figured out what the expression does

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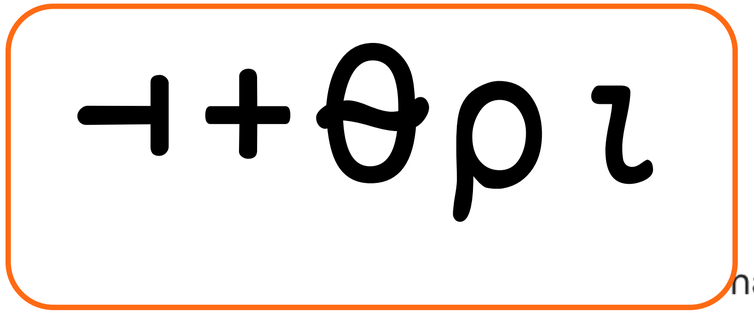
- Claude figured out what the expression does
- Correct explanation
- Breaks down into small pieces, similar to how a human would
- Tests different inputs and analyses the results

Writing is harder than explaining

What's the shortest fully tacit Dyalog APL expression that evaluates to 1 if called monadically, and 2 if called dyadically?

DYALOG AI

The shortest fully tacit Dyalog APL expression for this behavior is:



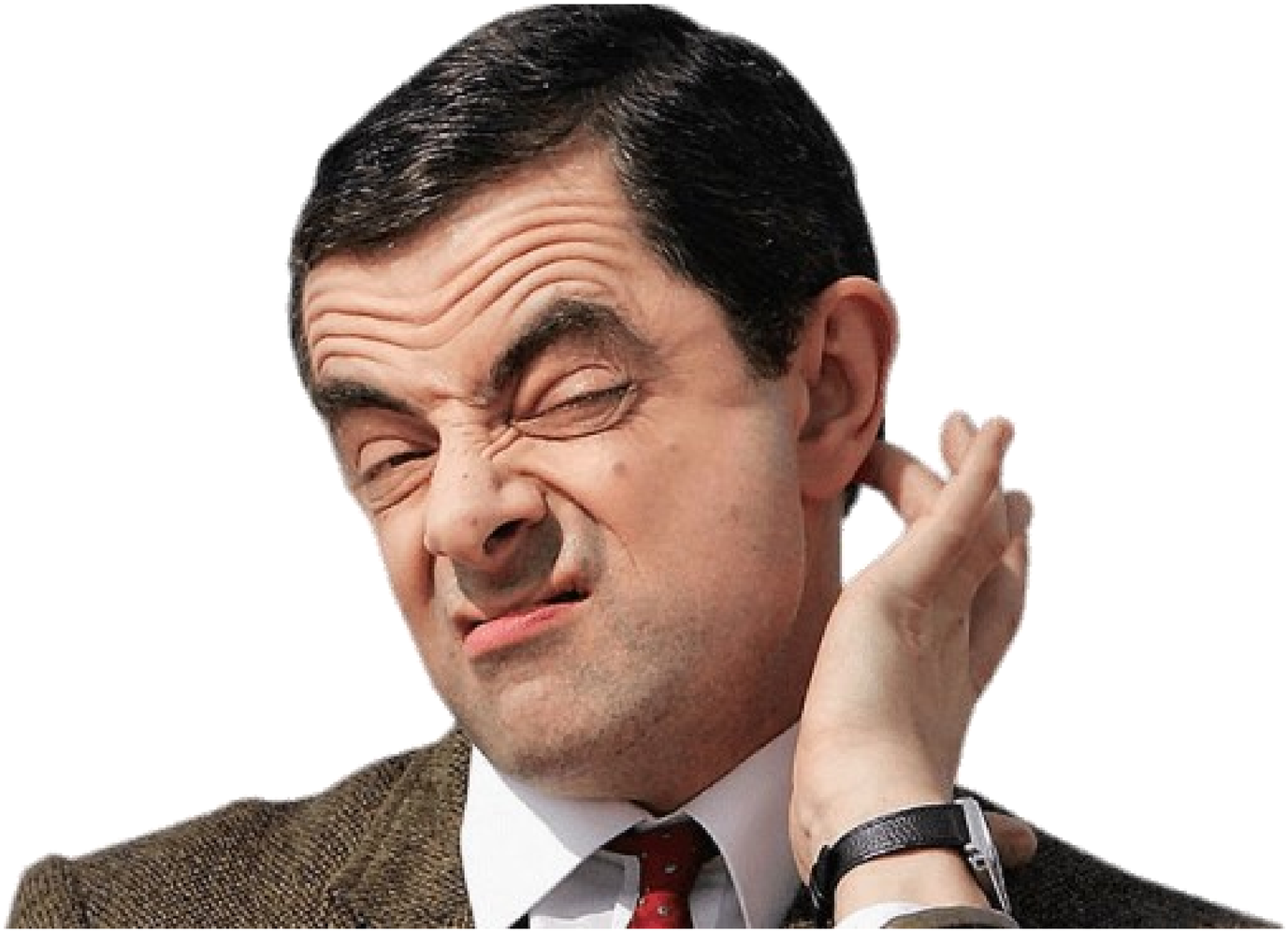
nandles "padding" and "identity" when arguments are missing in a tacit train (specifically a 3-prong **fork**).

Syntax	Execution	Result
Monadic `(f g h) Y`	`(f Y) g (h Y)`	`(⊣ Y) + (⍬ ⍴ ⍳ Y)`
Dyadic `X (f g h) Y`	`(X f Y) g (X h Y)`	`(X ⊣ Y) + (X ⍬ ⍴ ⍳ Y)`

Export to Sheets

Breaking down the components

1. `⊣` **(Left):**



- *Shortest Tacit Valence Detector in Dyalog APL*

  ≢,⍥⊂ — 4 glyphs.

  How it works

  The expression is a 2-train (atop): ≢ atop the derived function ,⍥⊂.

  ,⍥⊂ — the ⍥ (over) operator applies ⊂ (enclose) to each argument, then feeds the

  - Monadically: ,(⊂⍵) — ravel of an enclosed scalar → a 1-element vector
  - Dyadically: (⊂⍺),(⊂⍵) — catenate two enclosed scalars → a 2-element vector

  ≢ (tally) then counts the length: 1 or 2.

  The key insight is that , has different monadic (ravel) and dyadic (catenate) def
  forwarding to ,. The ⊂ ensures both arguments are always scalars, so ravel always
  exactly 2.

  Verification

```
      f ← ≢,⍥⊂
      f 42
1
      10 f 42
```


Dev Container: Claude Dev Environment (N... main* 0 0 1 Update is ready, click to restart.

› What is the shortest fully tacit expression in Dyalog A



- *Shortest Tacit Valence Detector in Dyalog APL*

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Image Registration using Multiresolution Frequency Domain Correlation

Stefan Krüger and Andrew Calway
Department of Computer Science
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Bristol BS8 1UB
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Abstract

This paper describes a correlation based image registration method which is able to register images related by a single global affine transformation or by a transformation field which is approximately piecewise affine. The method has two key elements: an affine estimator, which derives estimates of the six affine parameters relating two image regions by aligning their Fourier spectra prior to correlating; and a multiresolution search process, which determines the global transformation field in terms of a set of local affine estimates at appropriate spatial resolutions. The method is computationally efficient and performs well for a range of different images and transformations.

1 Introduction

Image registration is an important area of Computer Vision and Image Processing involves determining the transformation which will map pixels in one image to their responding or matching pixels in one or more related images, where the latter are diffe views and/or different time frames of the same scene or object, for example. The nee

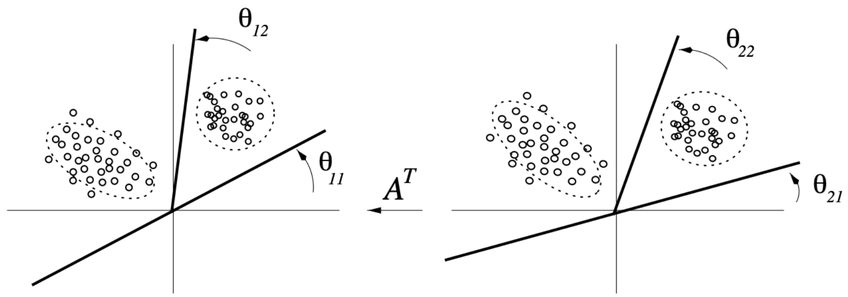


Figure 2: Angular segmentation of the magnitude spectra.

under the action of A^T, then the centroids in the segments

$$\vec{\mu}_i(\theta_{i1},\theta_{i2}) = \int_{\Lambda(\theta_{i1},\theta_{i2})} \vec{\omega}\,|\hat{x}_i(\vec{\omega})|\,d\vec{\omega} \;\Big/ \int_{\Lambda(\theta_{i1},\theta_{i2})} |\hat{x}_i(\vec{\omega})|d\vec{\omega} \tag{3}$$

are related by

$$\vec{\mu}_1(\theta_{11},\theta_{12}) = A^T\vec{\mu}_2(\theta_{21},\theta_{22}) \tag{4}$$

To determine all four elements of A requires at least two such correspondences. The simplest way of doing this and one which makes full use of the available data is to use two segments which partition an oriented half plane, ie $\Lambda(\theta_{i1},\theta_{i2})$ and $\Lambda(\theta_{i2},\theta_{i1}+\pi)$, as illustrated in Fig. 2. This gives a 'centroid pair' for each spectra and hence two vector equations such as that in eqn (4), enabling all the elements of A to be found.

3.2 Equivariant segments

Given two spectra to be aligned, it remains to determine the segment angles θ_{i1} and θ_{i2} in order to compute the centroids. Two criteria can be identified:

1. That each segment should contain significant energy corresponding to distinct image structure in the spatial domain; and
2. That the segments be defined in terms of a measure which is invariant under the

```
Donors←{
  levels←α ⋄ p←ω ⋄ m←≢p ⋄ offsets←0,+\{≢0⊃ω}¨levels
  Visit←{
    d←0⊃ω ⋄ id←1⊃ω ⋄ live←2⊃ω ⋄ src←3⊃ω ⋄ r←4⊃ω ⋄ t←5⊃ω
    a←6⊃ω ⋄ b←7⊃ω ⋄ known←8⊃ω ⋄ dep←9⊃ω ⋄ ch←⊃levels[d]
    s←0⊃ch ⋄ c←1⊃ch ⋄ mt←2⊃ch ⋄ ma←3⊃ch ⋄ mb←4⊃ch ⋄ mk←11⊃ch
    q←⍳live ⋄ j←id[q] ⋄ src[q]←offsets[d]+j ⋄ dep[q]←d
    r[q;]←c[j;] ⋄ t[q;]←mt[j;] ⋄ a[q;;]←ma[j;;] ⋄ b[q;]←mb[j;] ⋄ known[q]←mk[j]
    quadrant←(2×p[q;0]≥c[j;0])+p[q;1]≥c[j;1]
    rank←(+\s)-1 ⋄ id[q]←(4×rank[j])+quadrant ⋄ live[q]←s[j]
    (d+1) id live src r t a b known dep
  }
  st←Visit⍣(≢levels)⊢0 (mρ0)(mρ1)(mρ0)(m 2ρ0)(m 2ρ0)(m 2 2ρ0)(m 2ρ0)(mρ0)(mρ0)
  (source:3⊃st ⋄ ref:4⊃st ⋄ mov:5⊃st ⋄ a:6⊃st ⋄ b:7⊃st ⋄ known:8⊃st ⋄ depth:9⊃st)
}
Choices←{
  levels←α ⋄ c←0⊃ω ⋄ own←1⊃ω ⋄ side←2⊃ω ⋄ n←3⊃ω ⋄ m←≢c ⋄ j←4/⍳m
  direction←side××c-own
  points←own[j;]+direction[j;]×(4×m)2ρ0 0 0 1 1 0 1 1
  valid←∧/(points≥-n÷2)∧points<n÷2 ⋄ where←⍳valid
  donors←levels Donors valid⌿points
  ids←(4×m)ρ¯1 ⋄ ids[where]←donors.source
  unique←,({(ω≥0)∧(⍳4)=ω⍳ω}⍤1) m 4ρids
  selected←⍳unique ⋄ lookup←(4×m)ρ0 ⋄ lookup[where]←⍳≢where ⋄ keep←lookup[selected]
  owner←⌊selected÷4 ⋄ dr←donors.ref ⋄ dt←donors.mov ⋄ da←donors.a ⋄ db←donors.b
  src←donors.source ⋄ dep←donors.depth ⋄ known←donors.known
  target←dt[keep;]+db[keep;]+da[keep;;]+.×⍤2 1⊢c[owner;]-dr[keep;]
  (owner:owner ⋄ slot:4|selected ⋄ source:src[keep] ⋄ sourceDepth:dep[keep] ⋄ mov:target ⋄ a:da[keep;;] ⋄ known:known[keep])
}
MultiRegister←{
  cfg←α ⋄ r←0⊃ω ⋄ t←1⊃ω ⋄ n←⊃ρr
  good←((ρr)≡n n)∧(ρr)≡ρt
  (~good)∨(n<16)∨(n<cfg.min)∨(cfg.min<8)∨(2|cfg.min):'Use equal square images ≥16 and even min ≥8' ⎕SIGNAL 11
  depth←2⍟n÷cfg.min
  depth≠⌊depth:'Image side / min must be a power of two' ⎕SIGNAL 11
  data←(FT r)(FT t)cfg.highpass
```


DYALOG AI

Stateful development

- dyalog-script unlocks fidelity, but is of little help with a *real* Dyalog APL app

Stateful development

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- For that we need a stateful, persistent connection

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  - Ride port (lots of people rolling their own here)

Stateful development

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- For that w[illegible] persistent connection
- Several p[illegible]
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Dyalog's Remote IDE

Stateful development

- dyalog-script unlocks fidelity, but is of little help with a *real* Dyalog APL app
- For that we need a stateful, persistent connection
- Several possible solutions
  - Ride port (lots of people rolling their own solutions here)
  - Other socket listener

Dyalog VS Code Extension

Martina Crippa, Gilgamesh Athoraya





Dyalog VS Code Extension

Martina Crippa, Gilgamesh Athoraya





- Experimental integration: full debugger support, multiple sessions, doc viewer etc

Dyalog VS Code Extension

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- Add Link and we end up with a very dynamic workflow for AI-assisted development

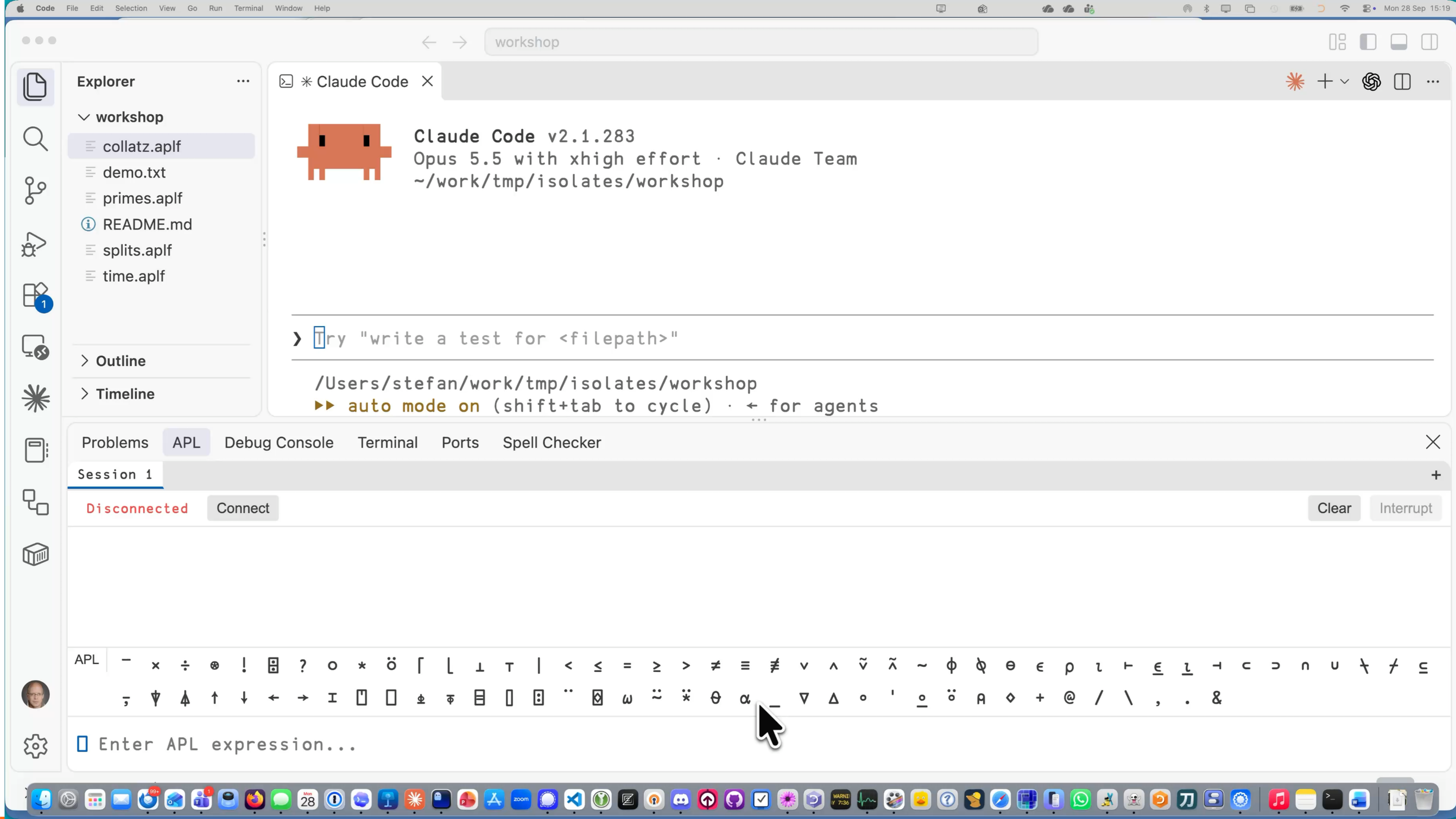
Dyalog VS Code Extension

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- https://github.com/dyalog-labs/vscode-apl


Code File Edit Selection View Go Run Terminal Window Help
Mon 28 Sep 15:19
workshop
Explorer
workshop
collatz.aplf
demo.txt
primes.aplf
README.md
splits.aplf
time.aplf
Outline
Timeline
Claude Code
Claude Code v2.1.283
Opus 5.5 with xhigh effort · Claude Team
~/work/tmp/isolates/workshop
Try "write a test for <filepath>"
/Users/stefan/work/tmp/isolates/workshop
▶▶ auto mode on (shift+tab to cycle) · ← for agents
Problems
APL
Debug Console
Terminal
Ports
Spell Checker
Session 1
Disconnected
Connect
Clear
Interrupt
APL
Enter APL expression...

Console Agents + Link = 

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Safety

Agentic Safety

- Agents, such as Claude Code, broadly have good safety records

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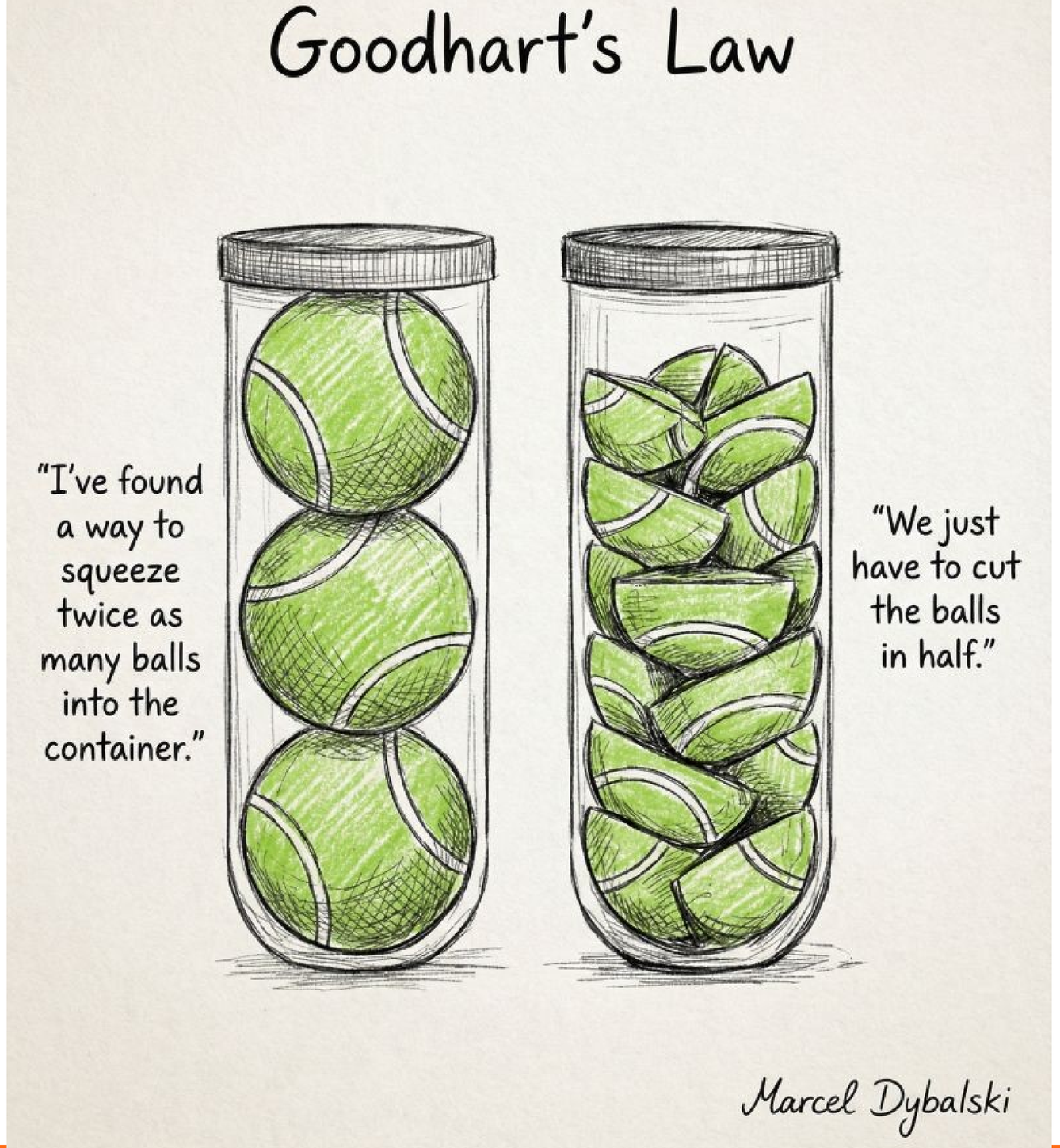
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Goodhart's Law



DYALOG AI

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- Over-eagerness breaching guardrails: *daily*



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DYALOG AI



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DYALOG AI



'Human approves' is the *least* secure

AI adoption in the APL world

DYALOG AI

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- Dyalog APL customers are doing amazingly creative things with LLMs

AI adoption in the APL world

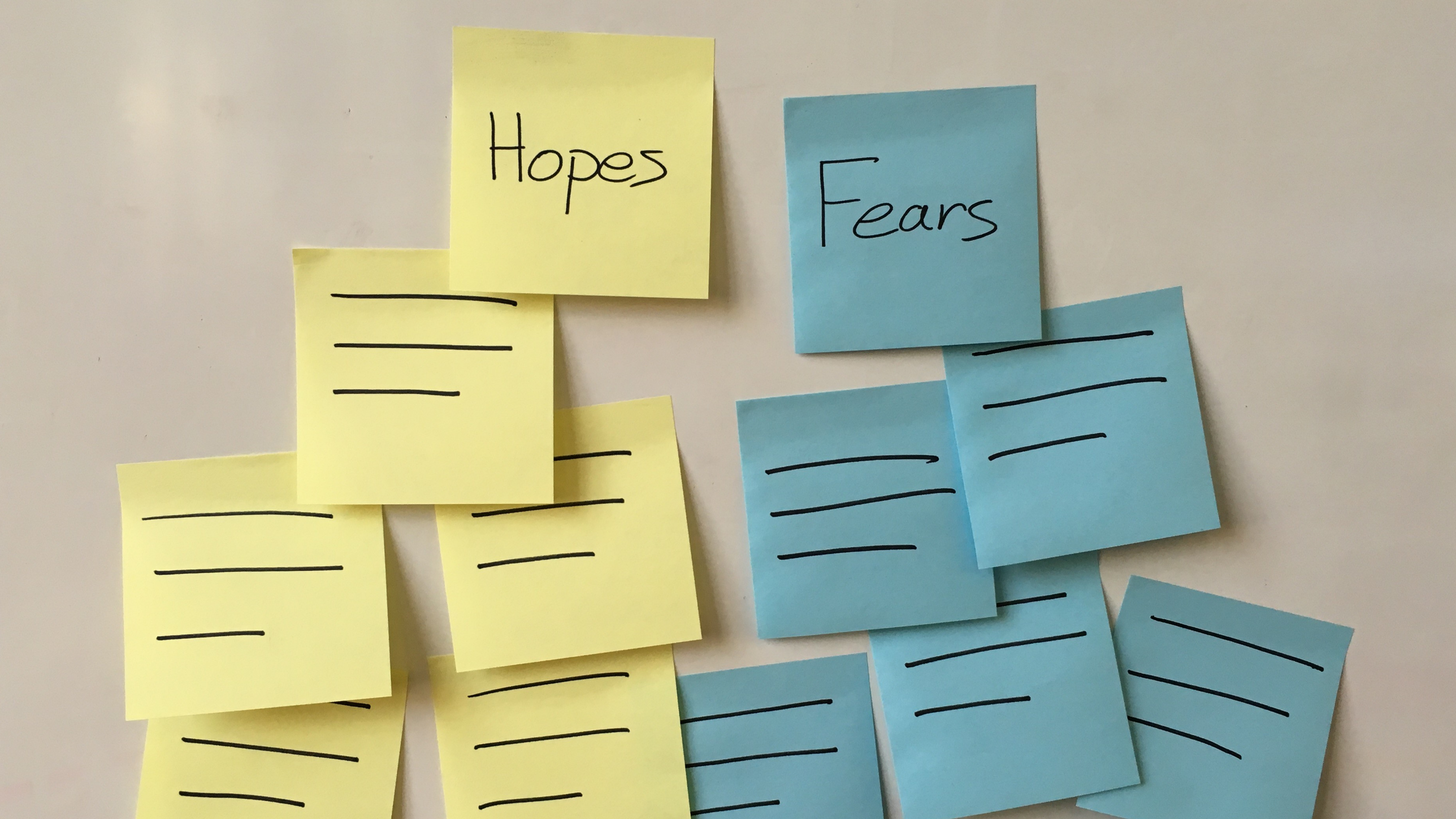
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- Productivity tool for developers, not a bottom line improver
- Embrace it: it will happen anyway, side of desk


Hopes
Fears

Will LLMs make APLers obsolete?

DYALOG AI

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DYALOG AI

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DYALOG AI

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- ...it does not turn interns into seniors
- LLMs makes it easier to do *more* with APL, especially integration

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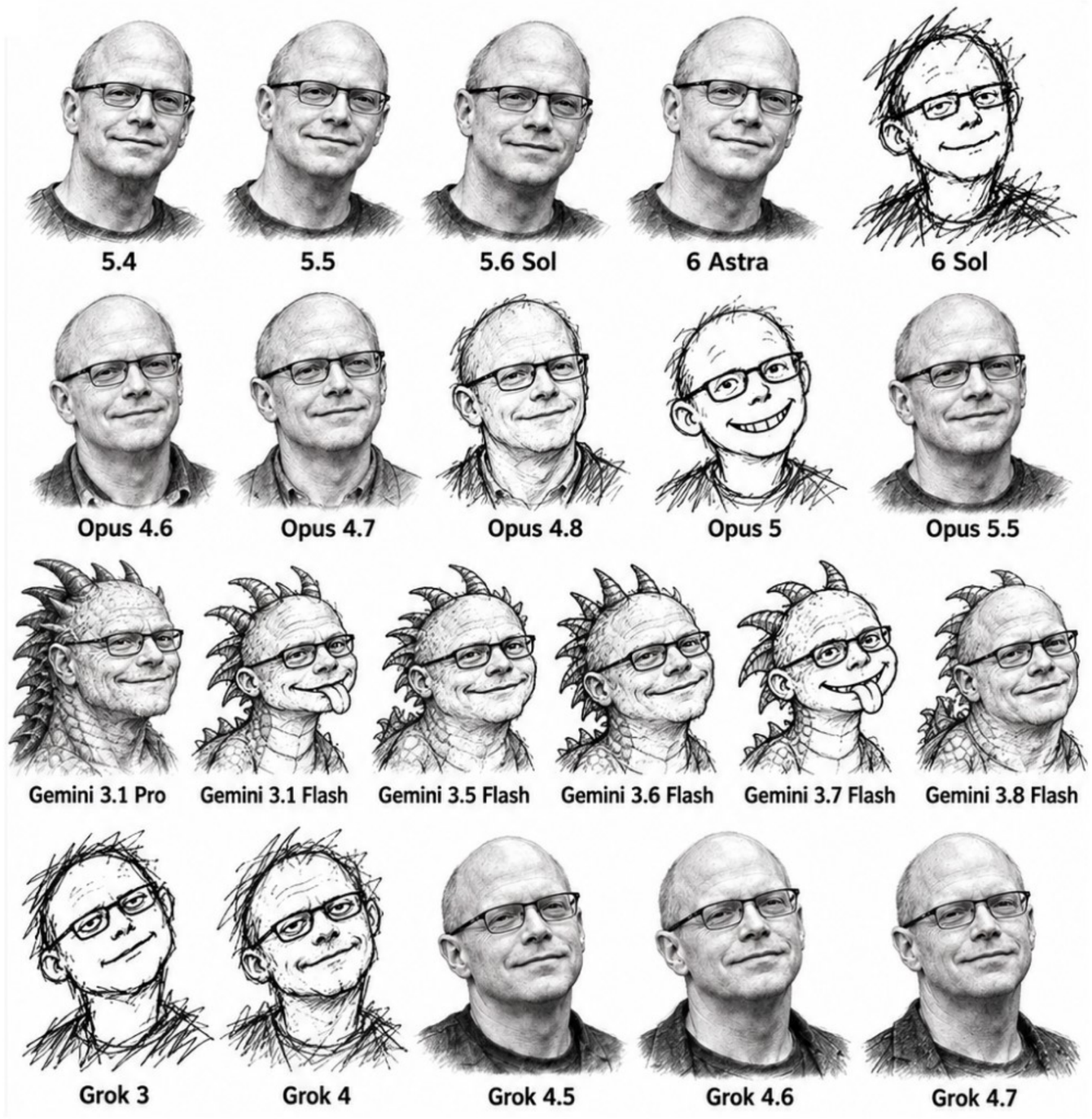
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- Governments may decide that AI is "too dangerous" for "non-citizens"
- Investors may suddenly demand return
- Counters: signs of commoditisation, fungible providers, open-weight models

Dyalog's thinking

Dyalog's thinking

All killer. No filler — Claude

- AI is here to stay, like it or not
- We want to make it easy to work with Dyalog in agentic workflows
- Hard at work improving our overall AI literacy internally
- ...but we're NOT becoming an "AI company"


5.4
5.5
5.6 Sol
6 Astra
6 Sol
Opus 4.6
Opus 4.7
Opus 4.8
Opus 5
Opus 5.5
Gemini 3.1 Pro
Gemini 3.1 Flash
Gemini 3.5 Flash
Gemini 3.6 Flash
Gemini 3.7 Flash
Gemini 3.8 Flash
Grok 3
Grok 4
Grok 4.5
Grok 4.6
Grok 4.7